Service Information
BASF HiFi-Receiver 8440 /50

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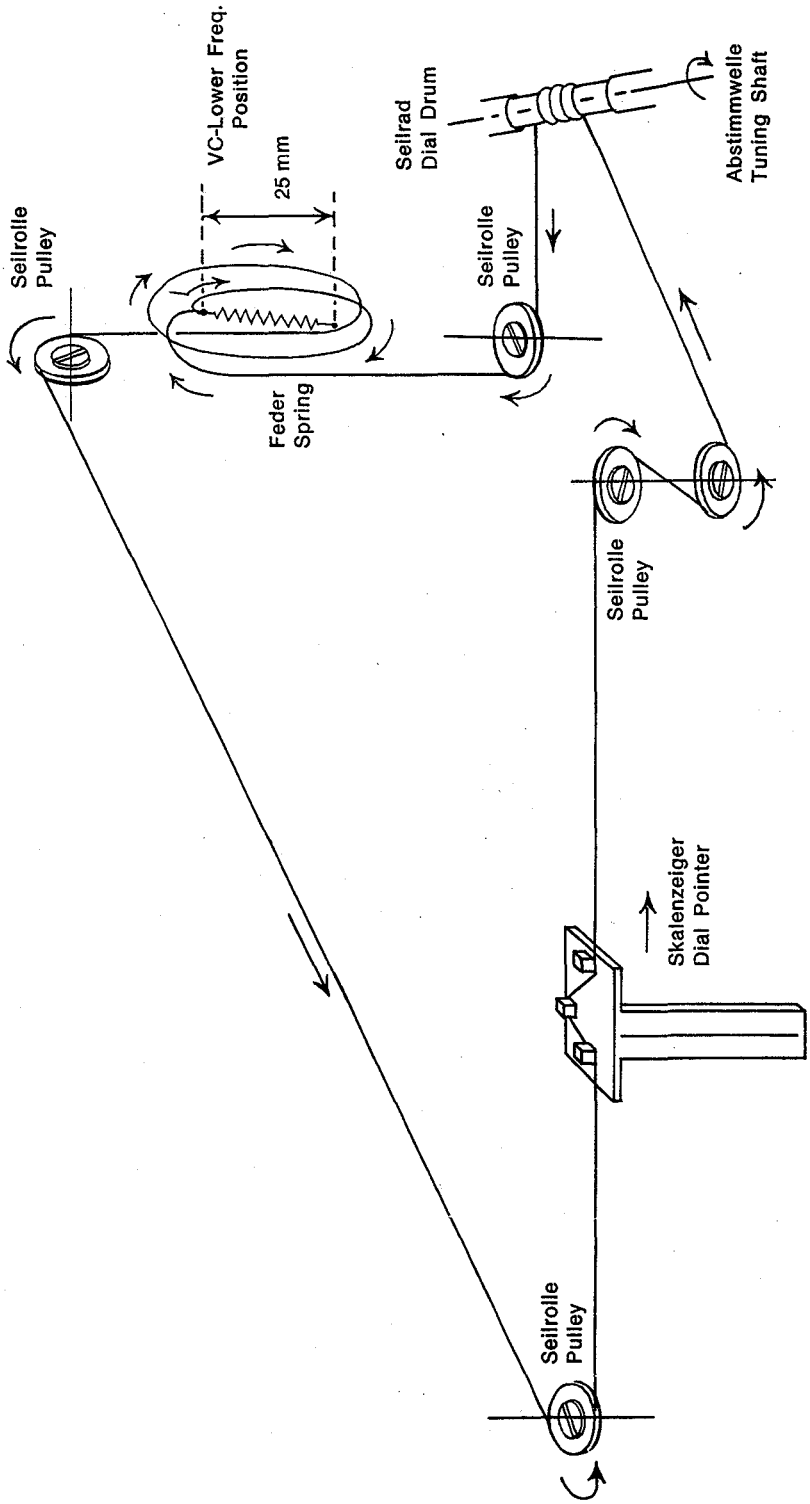
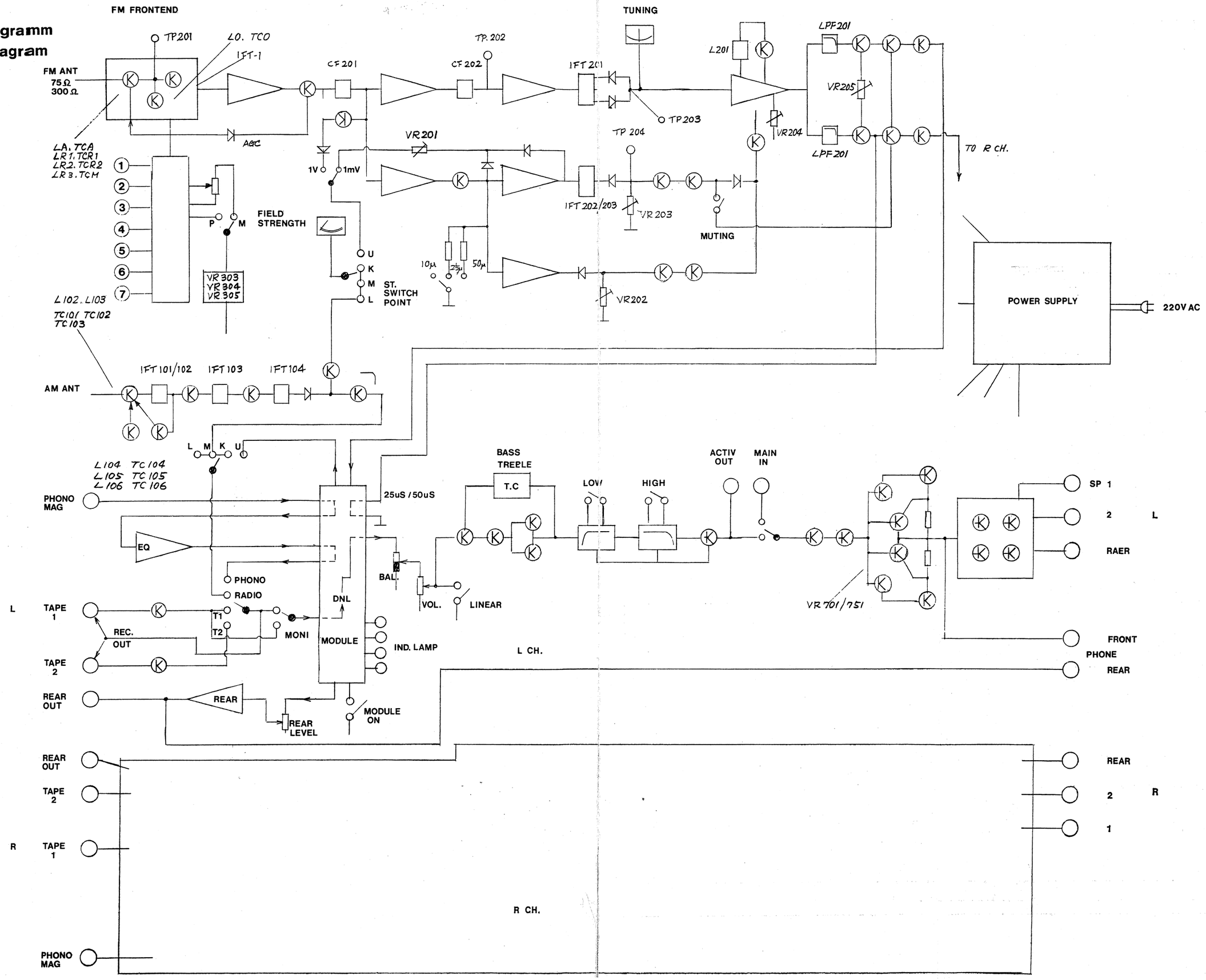
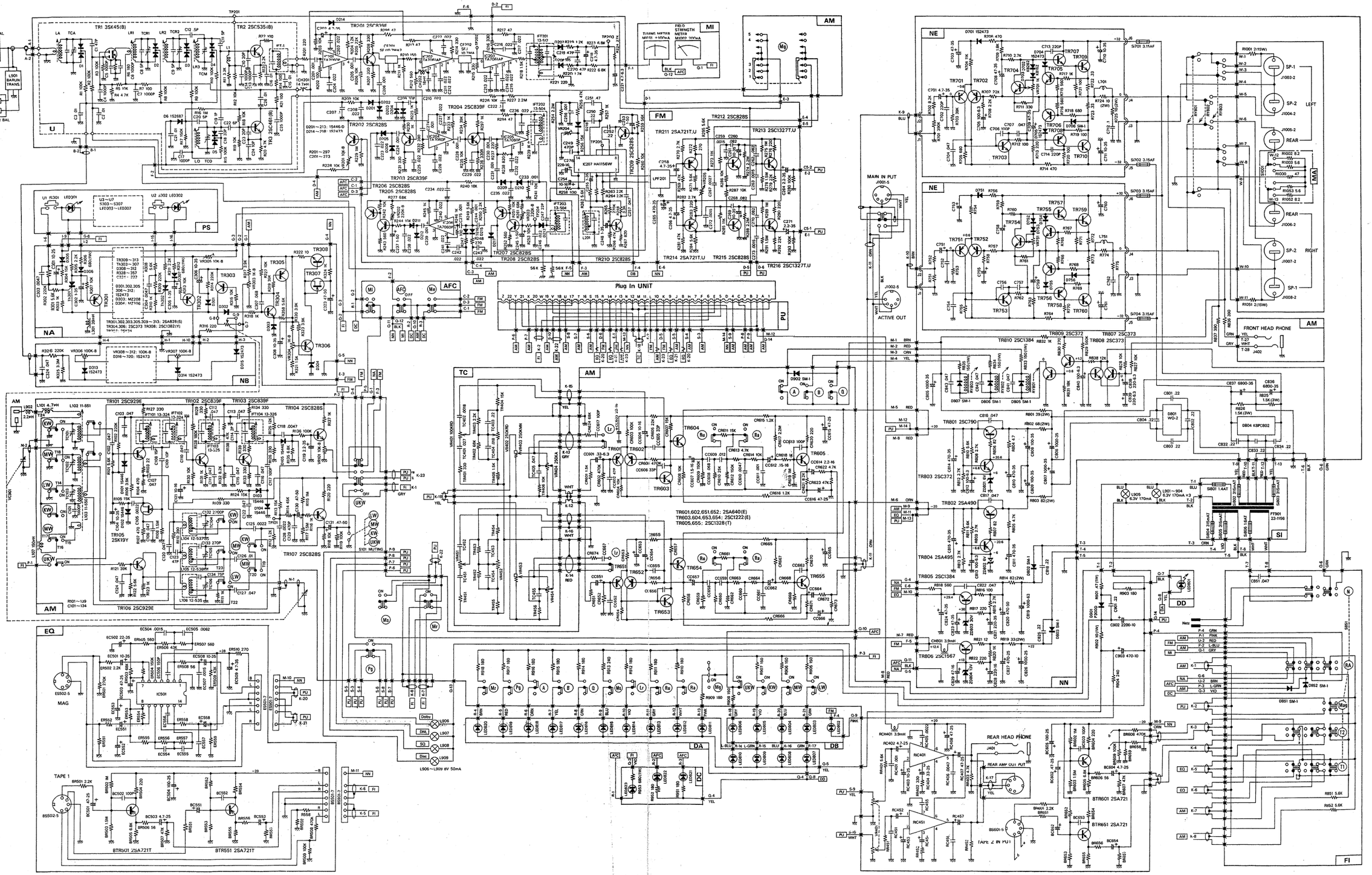
1. Seillaufschema
Dial Cord Stringing



2. Blockdiagramm
Block Diagram



3. Schaltbild
Schematic Diagram



4. Abgleichanleitung

4.1. AM (MW, LW und SW) Abgleich

MW Abgleich

1. Wahlschalter in RADIO und MW Position schalten
2. Signalgenerator auf Frequenz, wie in der Tabelle 1 angegeben, einstellen
3. Den Abgleich, wie in der Tabelle 1 angegeben, fortsetzen

Tabelle - 1

Schritt	Generator-anschluß		Generator-frequenz	Radioskala in Position	Millivoltmeter — oder Oszillograf-anschluß	Abgleich-punkt	Abgleich
1	Ankoppel-schleife		455 kHz	an den linken Anschlag	Millivoltmeter parallel 4Ω Widerstand (siehe Fig. 1)	IFT-101 IFT-102 IFT-103 IFT-104	Maximum
2			515 kHz			L-105	
3			1650 kHz	an den rechten Anschlag		TC-105	
4	Schritte 2 und 3 wiederholen, bis keine Verbesserung erzielt wird						
5	Ankoppel-schleife		600 kHz	600 kHz	wie Schritt 1	L-103 MW	Maximum
6			1400 kHz	1400 kHz		TC-102	
7	Schritte 5 und 6 wiederholen, bis keine Verbesserung erzielt wird						

LW Abgleich

1. Wahlschalter in Position RADIO und LW schalten
2. Signalgenerator auf Frequenz, wie in der Tabelle 2, einstellen
3. Abgleich, siehe Tabelle 2, fortsetzen

Tabelle - 2

Schritt	Generator-anschluß		Generator-frequenz	Radioskala in Position	Millivoltmeter- oder Oszillograf-anschluß	Abgleich-punkt	Abgleich
1	Ankoppel-schleife		140 kHz	an den linken Anschlag	Millivoltmeter parallel 4Ω Widerstand (siehe Fig. 1)	L-106	Maximum
2			360 kHz	an den rechten Anschlag		TC-106	
3	Schritte 1 und 2 wiederholen, bis keine Verbesserung erzielt wird						
4	Ankoppel-schleife		170 kHz	170 kHz	wie Schritt 1	L-103 LW	Maximum
5			320 kHz	320 kHz		TC-103	
6	Schritte 4 und 5 wiederholen, bis keine Verbesserung erzielt wird						

SW Abgleich

1. Wahlschalter in Position RADIO und SW schalten
2. Signalgenerator auf Frequenz, wie in der Tabelle 3, einstellen
3. Abgleich, siehe Tabelle 3, fortsetzen

Tabelle - 3

Schritt	Generator	Generator-frequenz	Radioskala-Position	Millivoltmeter- oder Oszillografanschluß	Abgleich-punkt	Abgleich
1	AM Generator an AM-Antenne über Anpassungsglied ***	5,6 MHz	an den linken Anschlag	Millivoltmeter parallel 4Ω Widerstand (siehe Fig. 2)	L-104	Maximum
2		16,5 MHz	an den rechten Anschlag		TC-104	
3	Schritte 1 und 2 wiederholen, bis keine Verbesserung erzielt wird					
4	wie Schritt 1	7 MHz	7 MHz	wie Schritt 1	L-102	Maximum
5		14 MHz	14 MHz		TC-101	
6	Schritte 4 und 5 wiederholen, bis keine Verbesserung erzielt wird					

4.2. FM Abgleich

1. Wahlschalter in Position RADIO und FM schalten
2. Signalgenerator auf Frequenz, wie in der Tabelle 4, einstellen
3. Abgleich, siehe Tabelle 4, fortsetzen

Tabelle - 4 **HF ZF Verstärker**

Schritt	Manual-Schalter	Generator	Generator-frequenz	Radioskala-Position	Millivoltmeter- oder Oszillografanschluß	Abgleich-punkt	Abgleich
1		Wobbelgenerator über Anpassungs-glied an TP-201	10,7 MHz		**an TP-202 siehe Fig. 3-1	IFT-1 Frontend Tuner	Maximum siehe Kurve in Fig. 3-1
2					an TP-203 siehe Fig. 3-2	IFT-201 unten	Tuning max. siehe Kurve in Fig. 3-2
						IFT-201 oben	Tuning „0“
3					an TP-204 siehe Fig. 3-1	IFT-202	symmetrisch
						IFT-203	siehe Kurve in Fig. 3-1
4	EIN	Signalgenerator an FM Antenne durch Anpassungs-glied (U = 2 µV)	108 MHz	10 8,0 MHz ▲ Zeiger zwischen linker 0 und 8	Millivoltmeter parallel 4Ω Widerstand (siehe Fig. 4)	VR-304	Maximum
5			87,8 MHz	87,8 MHz dritter Strich vom linken Skalenende		VR-303	
6	Schritte 4 und 5 wiederholen, bis keine Verbesserung erzielt wird						

Schritt	Manual-Schalter	Generator	Generator-frequenz	Radioskala-Position	Millivoltmeter- oder Oszillografanschluß	Abgleich-punkt	Abgleich
*7	EIN	Signalgenerator an FM-Antenne durch Anpassungsglied (U = 2 µV)	auf die mit dem Receiver eingestellte Frequenz	an den rechten Anschlag			
8	AUS			Speicher-Einstell-Regler auf rechten Anschlag		VR-305	Maximum
9	Schritte 7 und 8 wiederholen, bis bei Manual „ON" und „OFF" kein Unterschied festzustellen ist						
10	EIN	wie Schritt 4, 5 (U=2 µV)	90 MHz	90 MHz	wie Schritt 4	LA LR-1 LR-2 LR-3	Maximum
11	EIN	wie Schritt 10 (U=2 µV)	106 MHz	106 MHz	wie Schritt 4	TCA TCR-1 TCR-2 TCM	Maximum
12	Schritte 10 und 11 wiederholen, bis keine Verbesserung erzielt wird						

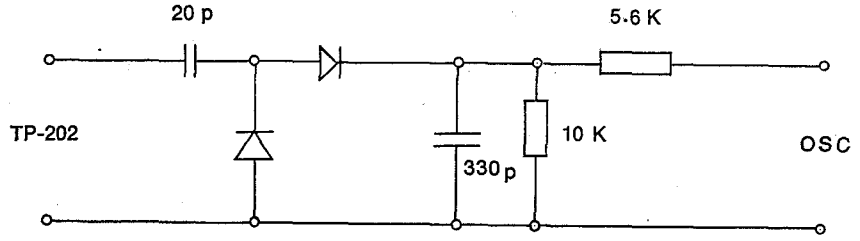
Muting-Schwelle, Stereo-Schaltschwelle und Meter

13	EIN	wie Schritt 10 (U=4 µV)	98 MHz	98 MHz	wie Schritt 4 Muting-Schalter auf „ON" einstellen	VR-203	bis Signal festzustellen ist
14		wie Schritt 10 (U=10 µV) (Stereosignal) L+R=53% 19 K=8%				VR-202	bis Stereo LED brennt
15		Stereosignal			Frequenzzähler an TP-205	VR-204	auf 19 kHz ±2,5%
16						VR-205	ganz nach links

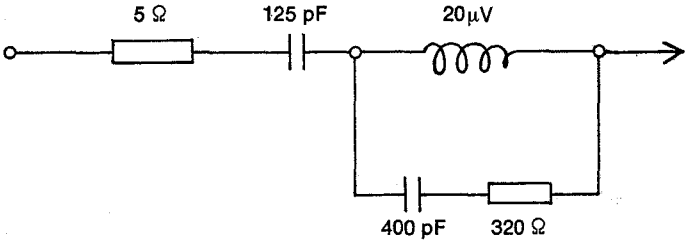
Schritt	Manual-Schalter	Generator	Generator-frequenz	Radioskala-Position	Millivoltmeter- oder Oszillografanschluß	Abgleich-punkt	Abgleich
17	EIN	wie Schritt 10 (U=1 mV) (Stereosignal) (L-Kanal EIN) (R-Kanal AUS)	98 MHz	98 MHz	wie Schritt 4	L-201	auf Minimum des R-Kanals
18						VR-205	
19		wie Schritt 10 (U=1 mV)	98 MHz	98 MHz	Meter-Schalter auf 1 mV	VR-201	bis 1000 mV

* Den Abgleich mit Radioskala-Position beginnen

** Zwischen TP-202 und Oszillograf schalten



*** Anpassungsglied



3.3. Endverstärker

1. Lautstärkeregler auf Minimum einstellen
2. Abgleich, siehe Tabelle 5, fortsetzen

Tabelle - 5

Schritt		Millivoltmeter-anschluß	Abgleichpunkt	Abgleich
1		R-722 (772) und R-723 (773) siehe Fig. 5	VR-701 (751)	auf 35 mV

4. Alignment instructions

4.1. AM (MW, LW and SW) alignment

MW Alignment

1. Set SELECT switch to RADIO and MW
2. Set signal generator frequency as listed in TABLE 1
3. Proceed as outlined in the TABLE 1

Table - 1

Step	Generator connection		Generator frequency	Radio dial setting	Meter or oscilloscope connection	Alignment point	Alignment
1	Test loop		455 KHz	Tuning gang fully counter-clockwise	VTVM across 4Ω dummy load (see Fig. 1)	IFT-101 IFT-102 IFT-103 IFT-104	maximum
2			515 KHz			L-105	
3			1650 KHz	Tuning gang fully clockwise		TC-105	
4	Repeat step 2 and 3 until no further improvement is noticed						
5	Test loop		600 KHz	tune to signal	same as step 1	L-103 MW	maximum
6			1400 KHz			TC-102	
7	Repeat step 5 and 6 until no further improvement is noticed						

LW Alignment

1. Set SELECT switch to RADIO and LW
2. Set signal generator frequency as listed in TABLE 2
3. Proceed as outlined in the TABLE 2

Table - 2

Step	Generator connection		Generator frequency	Radio dial setting	Meter or oscilloscope connection	Alignment point	Alignment
1	Test loop		140 KHz	Tuning gang fully counter-clockwise	VTVM across 4Ω dummy load (see Fig. 1)	L-106	maximum
2			360 KHz	Tuning gang fully clockwise		TC-106	
3	Repeat steps 1 and 2 until no further improvement is noticed						
4	Test loop		170 KHz	Tune to signal	same as step 1	L-103 LW	maximum
5			320 KHz			TC-103	
6	Repeat steps 4 and 5 until no further improvement is noticed						

SW alignment

1. Set SELECT switch to RADIO and SW
2. Set signal generator frequency as listed in TABLE 3 and maintain output at a level barely strong enough to provide measurable indication on VTVM
3. Proceed as outlined in the TABLE 3

Table - 3

Step	Generator connection	Generator frequency	Radio dial setting	Meter or oscilloscope connection	Alignment point	Alignment
1	AM generator to AM antenna through matching pad ***	5,6 MHz	Tuning gang fully counter-clockwise	Tune to signal VTVM across 4Ω dummy load (see Fig. 2)	L-104	maximum
2		16,5 MHz	Tuning gang fully clockwise		TC-104	
3	Repeat step 1 and 2 until no further improvement is noticed					
4	same as step 1	7 MHz	tune to signal	same as step 1	L-102	maximum
5		14 MHz			TC-101	
6	Repeat step 4 and 5 until no further improvement is noticed					

4.2. FM alignment

1. Set SELECT switch to RADIO and FM
2. Set signal generator frequency as listed TABLE 4
3. Proceed as outlined in the TABLE 4

Table - 4 RF IF amplifier

Step	Manual switch	Generator connection	Generator frequency	Radio dial setting	Meter or oscilloscope connection	Alignment point	Alignment
1		Sweep Generator through buffer to TP-201	10,7 MHz		Scope to TP-202** as shown in fig. 3-1	IFT-1 Frontend Tuner	Maximum see curve in fig. 3-1
2					Scope to TP-203 as shown in fig. 3-2	IFT-201 below	Tuning max. see curve in fig. 3-2
						IFT-201 above	Tuning „0"
3					Scope to TP-204 as shown in fig. 3-1	IFT-202	symmetrical
						IFT-203	see curve in fig. 3-1
4	ON	Signal Generator to FM Antenna through matching pad. (U = 2 µV)	108 MHz	10 8 MHz ▲ Pointer between left 0 and 8	VTVM across 4Ω dummy load. (see fig. 4)	VR-304	Maximum
5			87,8 MHz	87,8 MHz Third vertical line from left scale end		VR-303	
6	Repeat steps 4 and 5 until no further improvement is noticed						

Step	Manual switch	Generator connection	Generator frequency	Radio dial setting	Meter or oscilloscope connection	Alignment point	Alignment
* 7	ON	Signal Generator to FM Antenna through matching pad. (U = 2 µV)	to the frequence adjustment by the receiver	Tuning gang fully clockwise			
8	OFF			Pre-setter controle 1 fully clockwise		VR-305	Maximum
9	Repeat steps 7 and 8 until no differences by Manual „ON" and „OFF" is noticed						
10	ON	same as step 4, 5 (U=2 µV)	90 MHz	90 MHz	same as step 4	LA LR-1 LR-2 LR-3	Maximum
11	ON	same as step 10 (U=2 µV)	106 MHz	106 MHz	same as step 4	TCA TCR-1 TCR-2 TCM	Maximum
12	Repeat steps 10 and 11 until no further improvement is noticed						

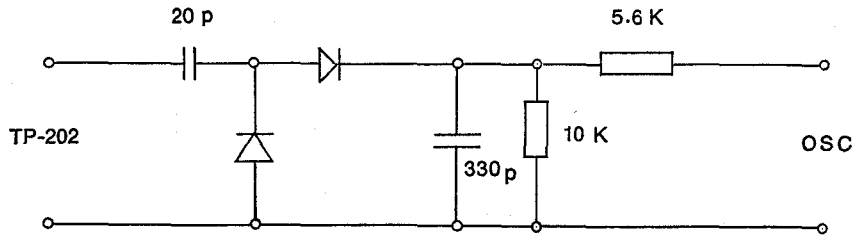
Muting point, Stereo switching point and meter

13	ON	same as step 10 (U=4 µV)	98 MHz	98 MHz	same as step 4 set MUTING switch to „ON" position	VR-203	until sound is noticed
14		same as step 10 (U=10 µV) (Stereo signal) L+R=53% 19 K=8%				VR-202	adjust for stereo LED ON position
15					Freq. Counter to TP-205	VR-204	adjust for 19 KHz ± 2,5%
16						VR-205	fully counter-clockwise

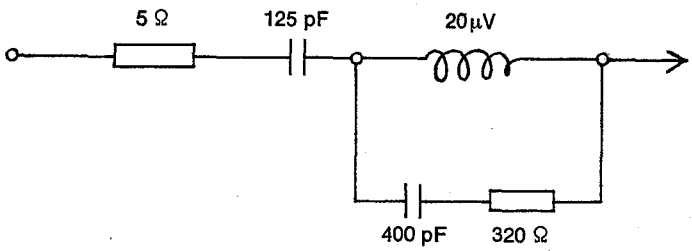
Step	Manual switch	Generator connection	Generator frequency	Radio dial setting	Meter or oscilloscope connection	Alignment point	Alignment
17	ON	same as step 10 (U=1 mV) (Stereo signal) (L-ch. ON) (R-ch. OFF)	98 MHz	98 MHz	same as step 4	L-201	adjust for minimum at R-channel
18						VR-205	
19		same as step 10 (U=1 mV)	98 MHz	98 MHz	set meter switch to 1 mV	VR-201	until 1000 mV

* Begin this alignment with „Radio dial setting" position

** Connect between TP-202 and oscilloscope



*** matching pad



3.3. Main amplifier

1. Set VOLUME CONTROL to minimum point
2. Proceed as outlined in the TABLE 5

Table - 5

Step		Meter connection	Ailgnment point	Alignment
1		R-722 (772) and R-723 (773) (see fig. 5)	VR-701 (751)	Adjust for 35 mV

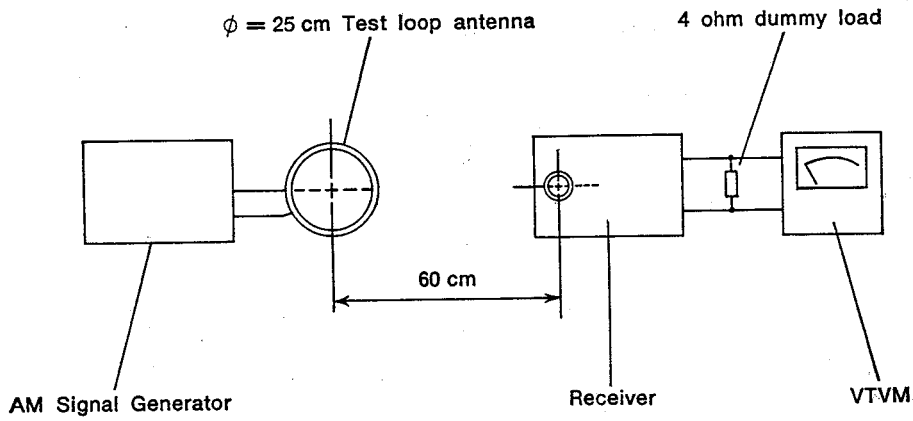


Fig. 1

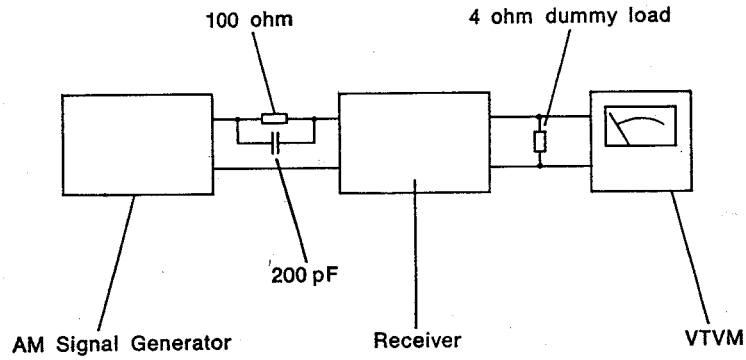


Fig. 2

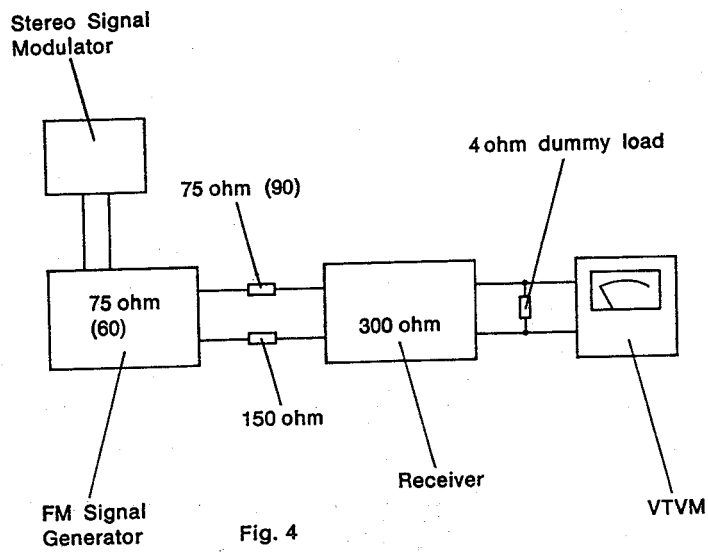
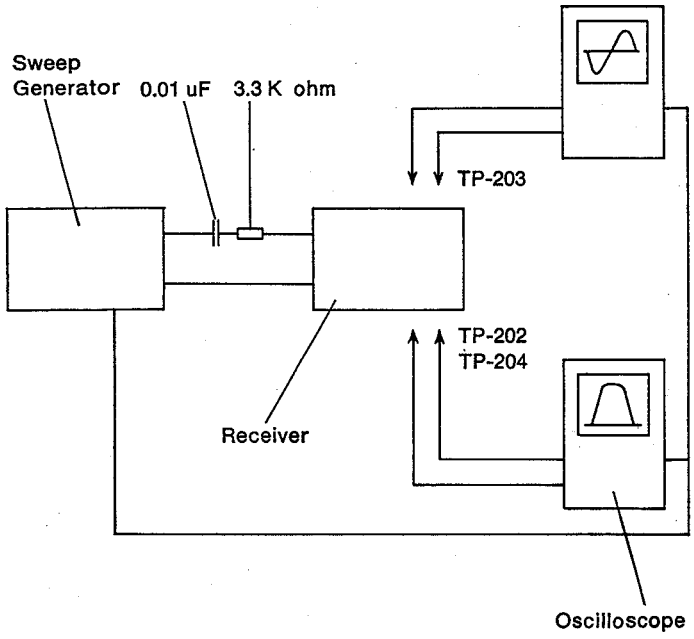
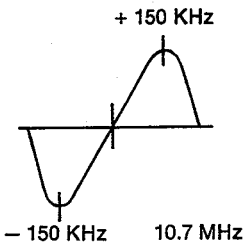


Fig. 4

Fig. 3-2





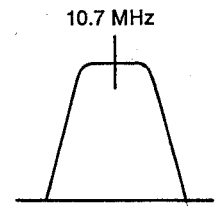


Fig. 3-1

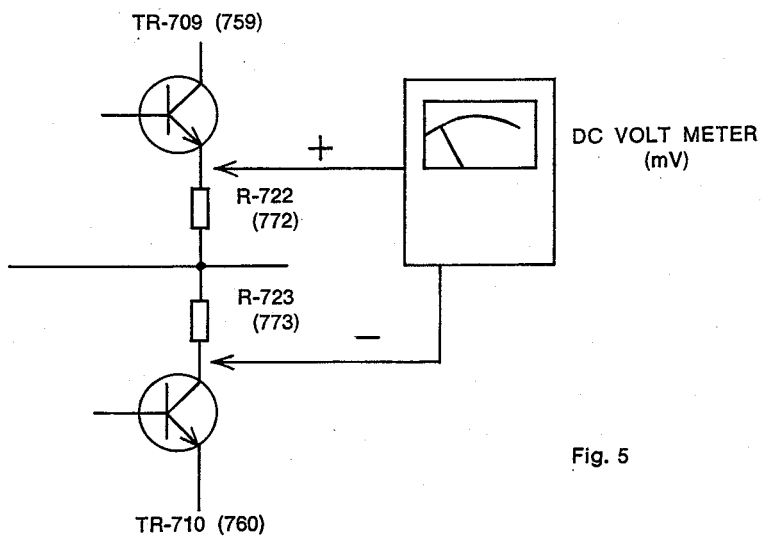
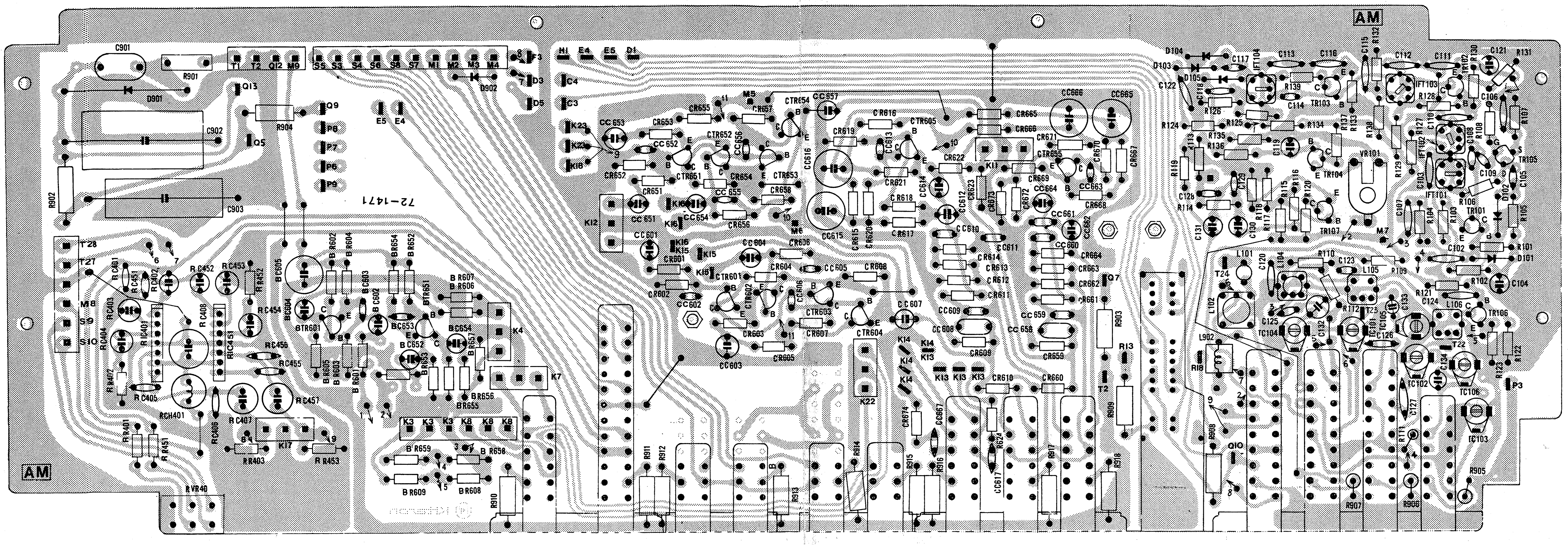


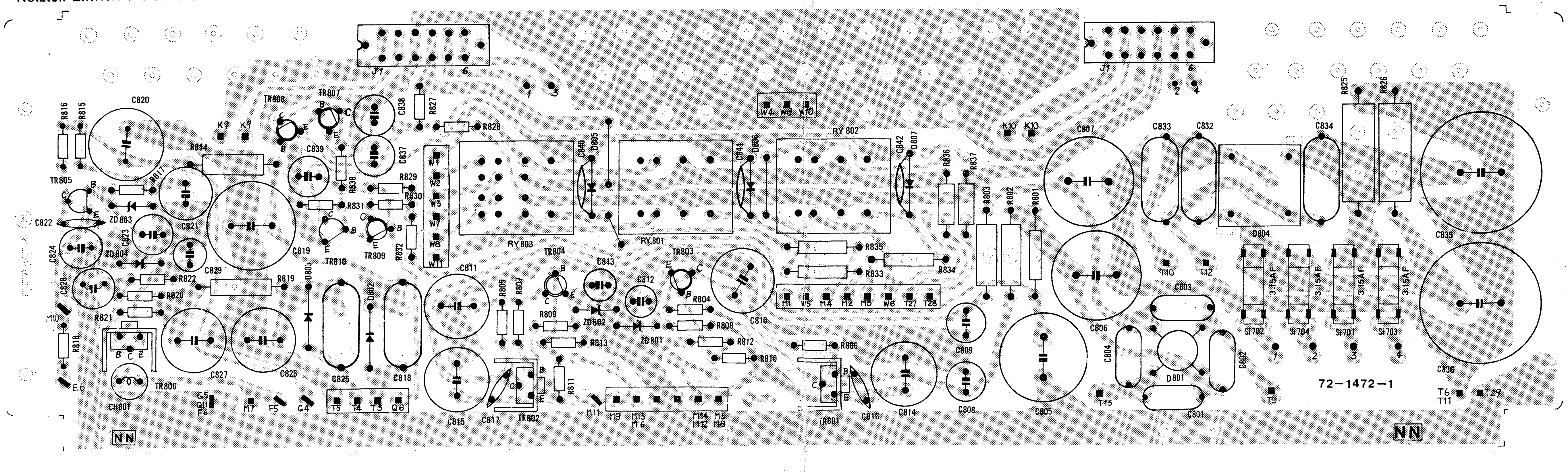
Fig. 5

5. Leiterplatten
Printed circuit Boards

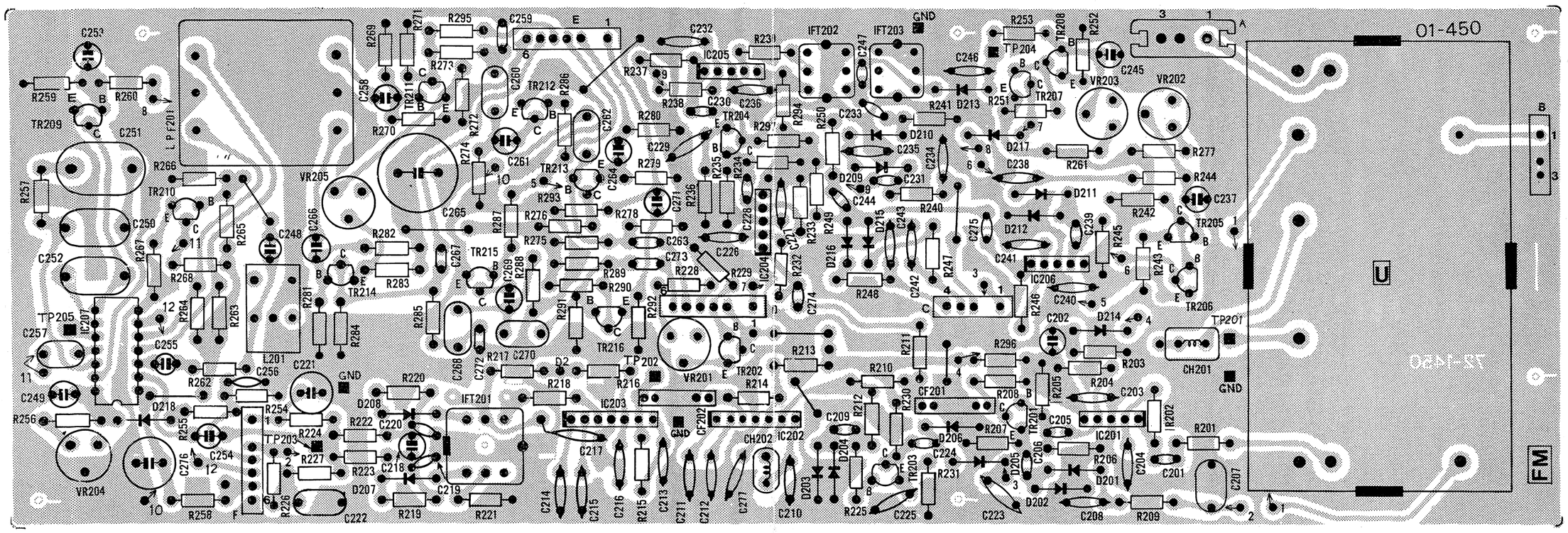
Hauptschalter-Einheit / Switch Wiring Unit



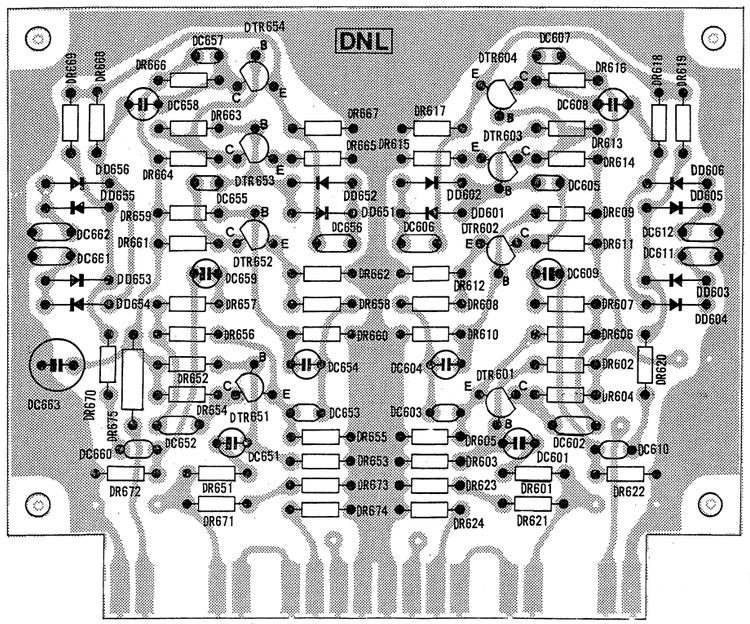
Netzteil-Einheit / Power Unit



FM-HF MPX Einheit / FM-RF MPX Unit

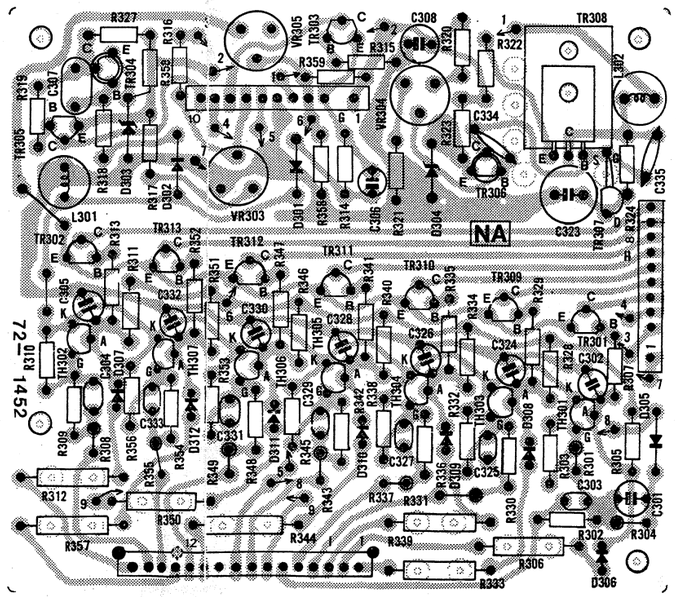


DNL-Einheit / DNL-Unit

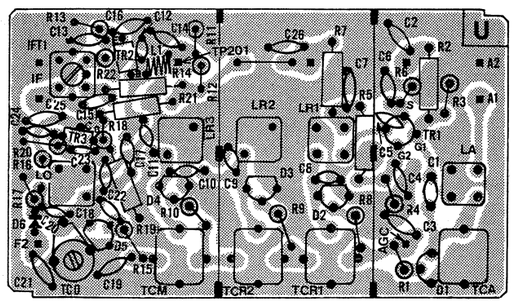


COMPONENT LOCATION–DNL

FM-Stationsspeicher / Pre-Setter Switching Unit

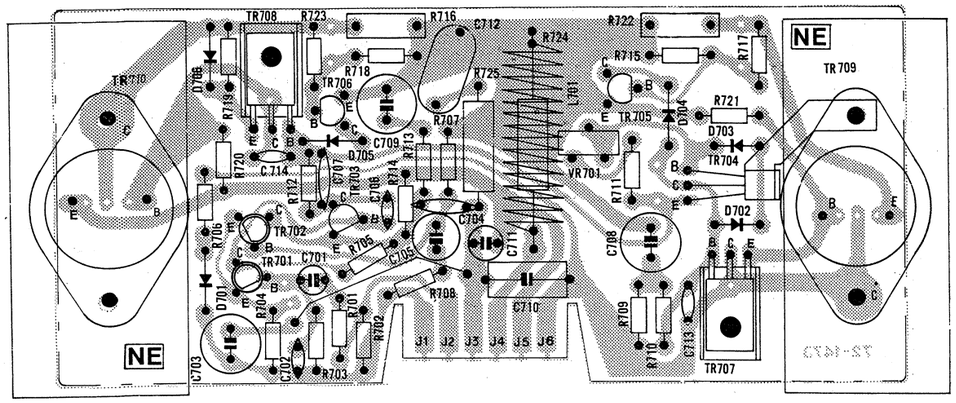


Tuner



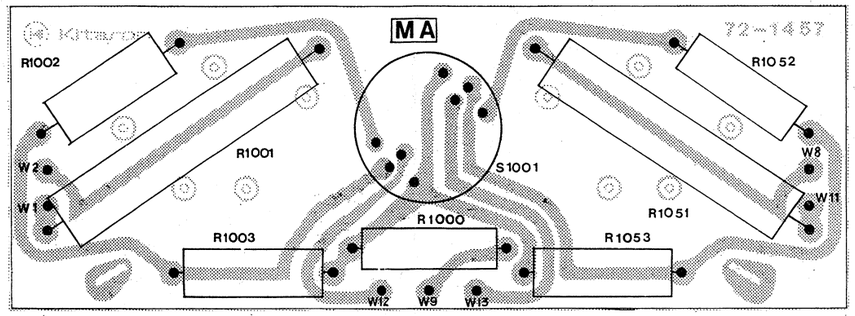
COMPONENT LOCATION–U

Endverstärker / Main Amp. Unit



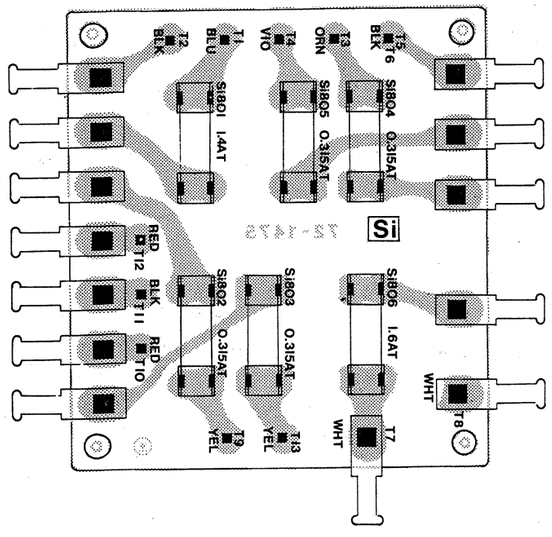
COMPONENT LOCATION – NE

Quadro-Matrix Platine / Speaker Matrix Ass'y

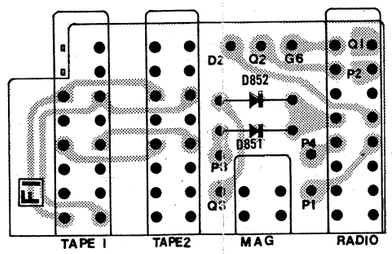


COMPONENT LOCATION – MA

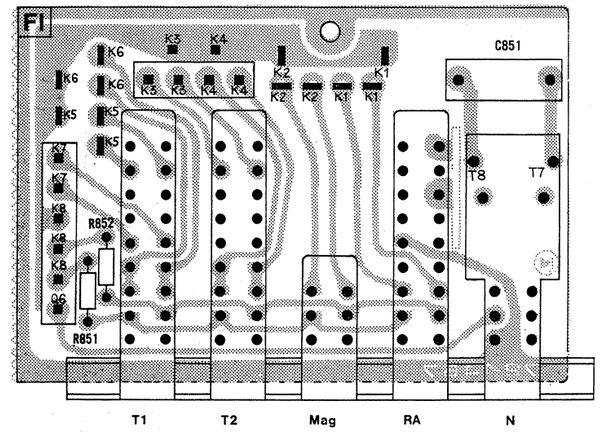
Baugruppe Sicherungshalter / Fuse Holder Ass'y



Kippschalter-Einheit / Selector Power Switch

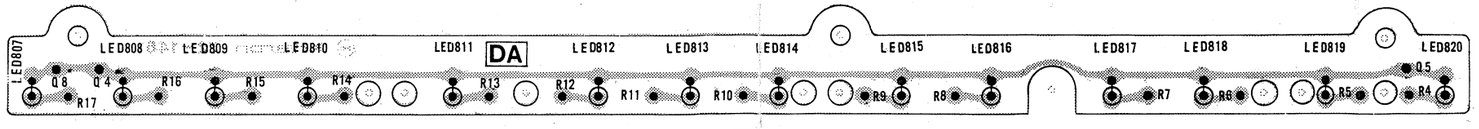


COMPONENT LOCATION – FI



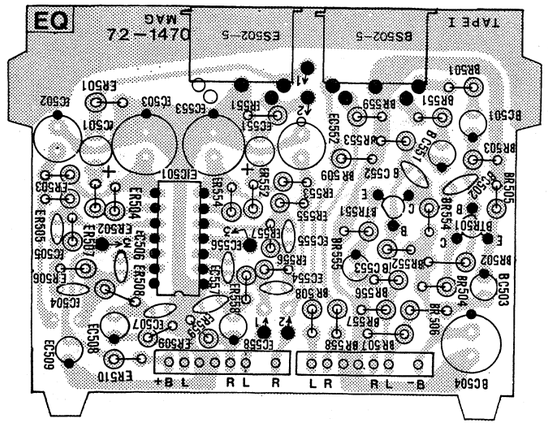
COMPONENT LOCATION – FI

Baugruppe Leuchtdioden / LED Ass'y

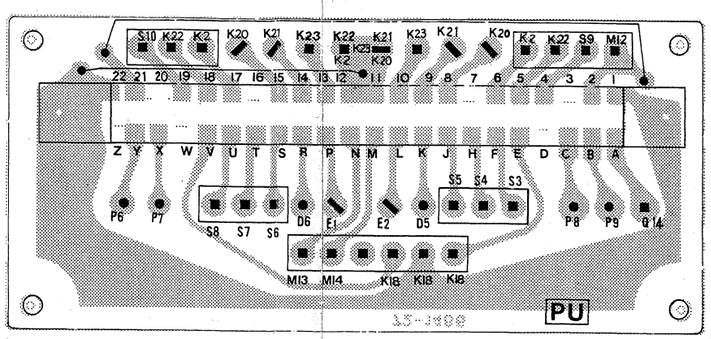


COMPONENT LOCATION – DA

Entzerrer-Vorverstärker / Equalizer Buffer Unit

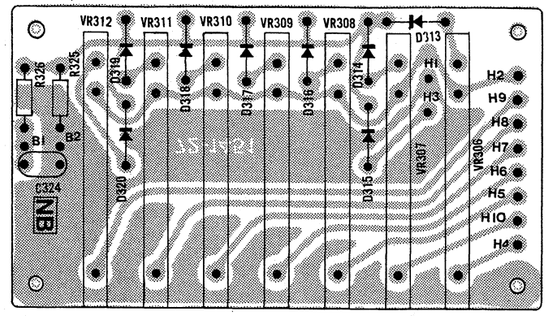


Modulsteckleiste / Plug in Unit



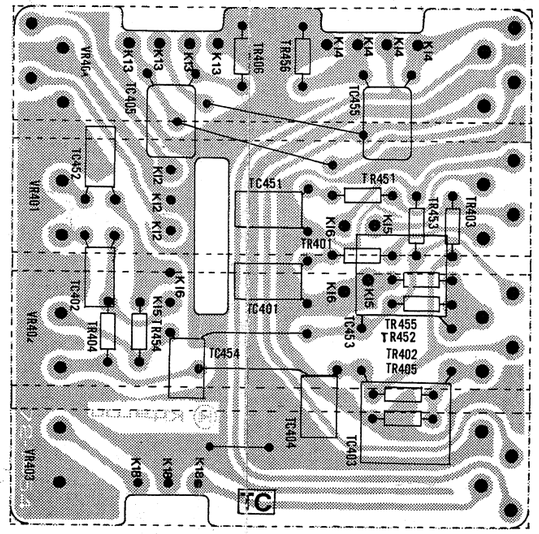
COMPONENT LOCATION–PU

Speicher-Einstelleinheit / Pre-Setter Unit



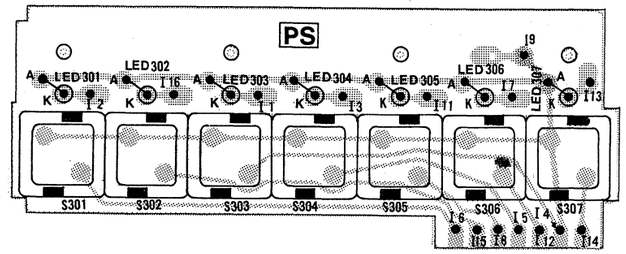
COMPONENT LOCATION–NB

Regel-Einheit / Control Unit



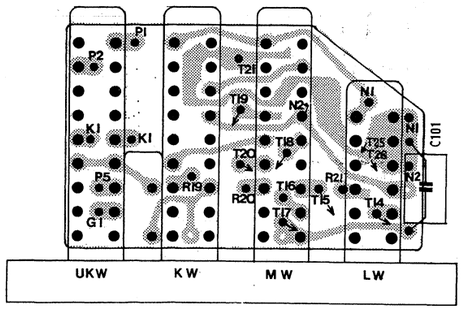
COMPONENT LOCATION–TC

FM-Stationstasten / FM-Touch Switch Unit



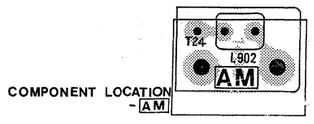
COMPONENT LOCATION–PS

Baugruppe Wellenbereichschalter / Band Selector Switch Ass'y



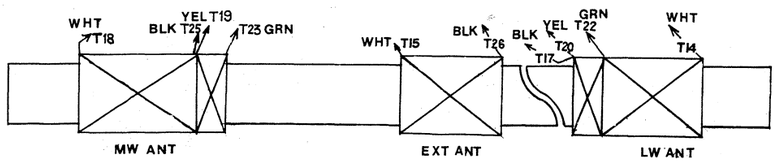
COMPONENT LOCATION–AM

AM-Antennenkupplung und Antenne / AM-Antenna Coupling and Antenna



COMPONENT LOCATION–AM

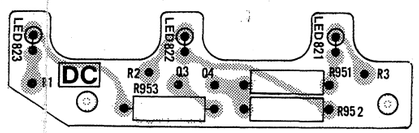
Ferrit-Antenne / Ferrite Antenna



Leuchtdiode (Netzschalter) / LED (Power Switch)

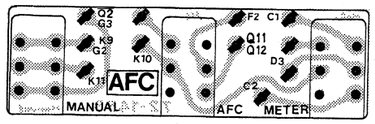
COMPONENT LOCATION–DD

Baugruppe LED (Manual, AFC, Meter / LED Ass'y



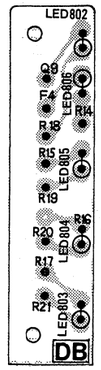
COMPONENT LOCATION–DC

Manual-, AFC-, Meter-Schalter / Manual-, AFC-, Meter-Switch



COMPONENT LOCATION–AFC

Wellenbereichanzeige (Skala) / Band Selector Indication (Scale)



COMPONENT LOCATION–DB

6. Teile-Liste
Parts list

Symbol	Teile-Nr. Part-No.	Bezeichnung	Description	Menge Quantity
	02–10151	**Entzerrer – Vorverstärker**	**Equalizer – Buffer Unit**	
BTR 501, 551	Q 33405	Transistor 2SA–721 T	Transistor 2SA–721 T	2
IC 501	M 44504	I.C. HA 1452	I.C. HA 1452	1
		Widerstände	**Resistors**	
		Wenn nicht anders gekennzeichnet, sind alle Widerstände Kohleschicht 1/4W J.	**All resistors are 1/4W J Carbon type, unless otherwise noted.**	
BR 506, 556+ ER 508, 558	R 560001405	56Ω		4
BR 504, 554	R 220101405	220Ω		2
ER 510	R 270101405	270Ω		1
ER 505, 555	R 560101405	560Ω		2
ER 502, 552+ BR 501, 551	R 220201405	2.2KΩ		4
BR 505, 555	R 680201405	6.8KΩ		2
ER 506, 556	R 430301405	43KΩ		2
BR 507, 557+ ER 509, 559	R 470301405	47KΩ		4
ER 503, 553	R 680301405	68KΩ		2
BR 509, 559	R 100401405	100KΩ		2
ER 504, 554	R 150401405	150KΩ		2
ER 501, 551	R 270401405	270KΩ		2
BR 508, 558	R 470401405	470KΩ		2
ER 507, 557	R 560401405	560KΩ		2
BR 502, 552	R 100501405	1MΩ		2
BR 503, 553	R 150501405	1.5MΩ		2
		Kondensatoren	**Capacitors**	
BC 502, 552	C 1011050K0	Keramik 50V 100pF K	Ceramic 50V 100pF K	2
EC 506, 556	C 2211050K0	Keramik 50V 220pF K	Ceramic 50V 220pF K	2
EC 504, 554	C 1515050K0	Keramik 50V 0.015pF K	Ceramic 50V 0.015pF K	
BC 501, 551	C 4708025E0	Elko 25V 0.47µF	Electrolytic 25V 0.47µF	2
EC 508, 558+	C 4707025E0	Elko 25V 4.7µF	Electrolytic 25V 4.7µF	4
BC 503, 553 BC 504	C 1005025E0	Elko 25V 100µF	Electrolytic 25V 100µF	1
EC 501, 551	C 1006035NB	Tantal 35V (25V) 10µF	Tantalum 35V (25V) 10µF	2
EC 509	C 4707035E0	Elko 35V 4.7µF	Electrolytic 35V 4.7µF	1
EC 502, 552	C 2206025E0	Elko 25 V 22µF	Electrolytic 25V 22µF	2
EC 503, 553	C 4706025E0	Elko 25V 47µF	Electrolytic 25V 47µF	2
EC 507, 557	C 1510050E5	Mylar 50V 0.0015µF J	Mylar 50V 0.0015µF J	2
EC 505, 555	C 6810050E5	Mylar 50V 0.0068µF J	Mylar 50V 0.0068µF J	2
	82–274	Eingang – Buchse DIN 5P	Input Connector DIN 5P	2
	84–315	Steckfassung 7P	Plug Socket 7P	2
	74–274	Abschirmfach	Shield Case	1
	02–3024	**Endverstärker**	**Main Amp. Unit**	
		Halbleiter	**Semiconductors**	
TR 709, 710, 759, 760	Q 33433	Transistor EC 680 R	Transistor EC 680 R	4
TR 708, 758	Q 33407	Transistor 2SA794 R	Transistor 2SA794 R	2
TR 707, 757	Q 33432	Transistor 2SC1567 R	Transistor 2SC1567 R	2
TR 703, 753	Q 33431	Transistor 2SC1509 R, S	Transistor 2SC1509 R, S	2
TR 701, 702, 751, 752,	Q 33410	Transistor 2SA842 BL	Transistor 2SA842 BL	4
TR 704, 754	Q 33417	Transistor 2SC828 Q, R.	Transistor 2SC828 Q., R.	2
TR 706, 756	Q 33434	Transistor JA1050 G	Transistor JA1050 G	2
TR 705, 755	Q 33435	Transistor JA1350 G	Transistor JA1350 G	2
D 701, 704, 705 D 751, 754, 755	D 11201	Diode 1S2473	Diode 1S2473	6
D 706, 756	D 11202	Diode SM–1	Diode SM–1	2

Symbol	Teile-Nr. Part-No.	Bezeichnung	Description	Menge Quantity
		Widerstände	**Resistors**	
R 712, 721, 719, 720	R 100101405		R-25 type 100Ω J	8
R 762, 771, 769, 770				
R 711, 713, 763, 761	R 330101405		R-25 type 330Ω J	4
R 706, 714, 756, 764	R 470101405		R-25 type 470Ω J	4
R 715, 716, 765, 766	R 560101405		R-25 type 560Ω J	4
R 705, 718, 755, 768	R 680101405		R-25 type 680Ω J	4
R 717, 767	R 100201405		R-25 type 1KΩ J	2
R 708, 758	R 120201405		R-25 type 1.2KΩ J	2
R 709, 759	R 180201405		R-25 type 1.8KΩ J	2
R 710, 760	R 270201405		R-25 type 2.7KΩ J	2
R 704, 754	R 110301405		R-25 type 11KΩ J	2
R 758, 757	R 220301405		R-25 type 22KΩ J	2
R 703, 753	R 390301405		R-25 type 39KΩ J	2
R 702, 752	R 82020 1405		R-25 type 8.2KΩ J	2
R 701, 751	R 390401405		R-25 type 390KΩ J	2
VR 701, 751	P 55604	Einstellregler SP 29 R 1K-B	Semi-Fixed SP29R 1K-B	2
R 725, 775	R 1000021M5	Metalloxidschicht 2W 10Ω J	Oxidized metal film 2W 10Ω J	4
R 724, 774				
R 723, 722, 772, 773	R 330A000C0	Zement MPC71, 0.33Ω K	Cement MPC71, 0.33Ω K	4
		Varistor	**Varistor**	
D 702, 752	KB262	KB-262	KB-262	2
D 703, 753	KB 162	KB-162	KB-162	2
		Kondensatoren	**Capacitors**	
C 705, 755	C 1005006E0	Elko 6.3V 100μF	Electrolytic 6.3V 100μF	2
C 701, 751	C 4707035E0	Elko 35V 4.7 μF	Electrolytic 35V 4.7μF	2
C 703, 708, 709	C 4706035E0	Elko 35V 47μF	Electrolytic 35V 47μF	6
C 753, 758, 759				
C 711, 761	C 1006035E0	Elko 35V 10μF	Electrolytic 35V 10μF	2
C 710, 760	C 1006035EA	Elko 35V 10μF FECE-B35V-10L	Electrolytic 35V 10μF FECE-B35V- 10L	2
C 706, 756	C 1011050K0	Keramik 50V 100P K	Ceramic 50V 100P K	2
C 702, 713, 714	C 2211050K0	Keramik 50V 220P K	Ceramic 50V 220P K	6
C 752, 763, 764				
C 704, 707, 754, 757	C 470905010	Mylar 50V 0.047μF P	Mylar 50V 0.047μF P	4
C 712, 762	C 100805010	Mylar 50V (YM-93) 0.1μF K	Mylar 50V (YM-93) 0.1μF K	2
		Spule	**Coil**	
L 701, 751	15-128	0.8ϕ	0.8ϕ	2
		Kühlkörper	**Heat Sink**	
	74-331	Kühlkörper	Heat Sink	2
	74-346	Kühlkörper	Heat Sink	2
	74-345	Kühlkörper	Heat Sink	4
	84-351	Kühlkörper	Heat Sink	2
	87-530	Distanzstück	Spacer	8

Symbol	Teile-Nr. Part-No.	Bezeichnung	Description	Menge Quantity
	02—20271	**Regler-Einheit**	**Control-Unit**	
		Widerstände	**Resistors**	
VR 404, 454	41-351	Schieberegler 250KΩ Ax2	Slide Volume 250KΩ Ax2	2
VR 403, 453	41-352	Schieberegler 100KΩ MN	Slide Volume 100KΩ MN	2
VR 402, 452	41-353	Schieberegler 250KΩ RDx2	Slide Volume 250KΩ RDx2	2
VR 401, 451	41-354	Schieberegler 100KΩ RDx2	Slide Volume 100KΩ RDx2	2
TR 401, 451	R 330101405	Kohleschicht 1/4W J R-25 330Ω	Carbon type 1/4W J R-25 330Ω	2
TR 405, 455	R 150201405	Kohleschicht 1/4W J R-25 1.5KΩ	Carbon type 1/4W J R-25 1.5KΩ	2
TR 403, 453	R 220201405	Kohleschicht 1/4W J R-25 2.2KΩ	Carbon type 1/4W J R-25 2.2KΩ	2
TR 406, 456	R 100301405	Kohleschicht 1/4W J R-25 10KΩ	Carbon type 1/4W J R-25 10KΩ	2
TR 404, 454	R 150301405	Kohleschicht 1/4W J R-25 15KΩ	Carbon type 1/4W J R-25 15KΩ	2
TR 402, 452	R 560301405	Kohleschicht 1/4W J R-25 56KΩ	Carbon type 1/4W J R-25 56KΩ	2
		Kondensatoren	**Capacitors**	
TC 402, 452	C 181005005	Mylar 50V 0.0018μF J	Mylar 50V 0.0018μF J	2
TC 404, 454	C 180905005	Mylar 50V 0.018μF J	Mylar 50V 0.018μF J	2
TC 401, 451	C 270905005	Mylar 50V 0.027μF J	Mylar 50V 0.027μF J	2
TC 403, 453	C 220805005	Mylar 50V 0.22μF J	Mylar 50V 0.22μF J	2
TC 405, 455	C 470905010	Mylar 50V 0.047μF K	Mylar 50V 0.047μF K	2
	04—0008	**Netzteil-Einheit**	**Power Unit**	
		Halbleiter	**Semiconductors**	
TR 801, 806	Q 33415	Transistor 2SC790 Y	Transistor 2SC790 Y	2
TR 802	Q 33401	Transistor 2SA490 Y	Transistor 2SA490 Y	1
TR 803, 807, 808, 809	Q 33440	Transistor 2SC372 Y	Transistor 2SC372 Y	4
TR 804	Q 33400	Transistor 2SA495 Y	Transistor 2SA495 Y	1
TR 805, 810	Q 33429	Transistor 2SC1384 R	Transistor 2SC1384 R	2
D 804	D 11209	Diode KBPC802 8A 200V Bridge	Diode KBPC802 8A 200V Bridge	1
D 801	D 11204	Diode W02M 1A 200V Bridge	Diode W02M 1A 200V Bridge	1
D 802, 803, 805 D 806, 807	D 11205	Diode SM-1 1A 200V	Diode SM-1 1A 200V	5
ZD 804	N 22303	Zener-Diode EQA01-13R 13V 1/2W	Zener diode EQA01-13R 13V 1/2W	1
ZD 803	N 22305	Zener-Diode EQA01-30R 30V 1/2W	Zener diode EQA01-30R 30V 1/2W	1
ZD 801, 802	N 22306	Zener-Diode EQA01-06R 6V 1/2W	Zener diode EQA01-06R 6V 1/2W	1
		Widerstände	**Resistors**	
R 825, 826	R 1502031M0	Metalloxidschicht 3W 1.5K Ω K	Oxidized Metal Film 3W 1.5K Ω K	2
R 819	R 3300021M5	Metalloxidschicht 2W 33Ω J	Oxidized Metal Film 2W 33Ω J	1
R 802	R 6800021M5	Metalloxidschicht 68Ω 2W J	Oxidized Metal Film 68Ω 2W J	1
R 803, 814	R 8200021M5	Metalloxidschicht 2W 82Ω J	Oxidized Metal Film 2W 82Ω J	2
R 801	R 4700011M5	Metalloxidschicht 1W 47Ω J	Oxidized Metal Film 1W 47Ω J	1
R 833, 834, 835	R 1501011M5	Metalloxidschicht 1W 150Ω J	Oxidized Metal Film 1W 150Ω J	3
R 836, 837	R 3901012D0	Solid 1/2W 390Ω K	Solid 1/2W 390Ω K	2
R 821	R 120001405	Kohleschicht 1/4W R25 J 12Ω	Carbon 1/4W R25 J 12Ω	1
R 806, 807	R 820001405	Kohleschicht 1/4W R25 J 82Ω	Carbon 1/4W R25 J 82Ω	2
R 816	R 100101405	Kohleschicht 1/4W R25 J 100Ω	Carbon 1/4W R25 100Ω	1
R 817, 822	R 220101405	Kohleschicht 220Ω	Carbon type 220Ω	2
R 830	R 270101405	Kohleschicht 270Ω	Carbon type 270Ω	1
R 832, 820	R 100201405	Kohleschicht 1KΩ	Carbon type 1KΩ	2
R 808, 812, 809, 813, 815	R 270201405	Kohleschicht 2.7KΩ	Carbon type 2.7KΩ	5
R 810, 811	R 560201405	Kohleschicht 5.6KΩ	Carbon type 5.6KΩ	2
R 827, 828	R 100301405	Kohleschicht 10KΩ	Carbon type 10KΩ	2
R 838	R 120301405	Kohleschicht 12KΩ	Carbon type 12KΩ	1
R 831	R 180301405	Kohleschicht 18KΩ	Carbon type 18KΩ	1
R 829	R 560401405	Kohleschicht 560KΩ	Carbon type 560KΩ	1
R 818	R 560101405	Kohleschicht 560Ω	Carbon type 560Ω	1

Symbol	Teile-Nr. Part-No.	Bezeichnung	Description	Menge Quantity
		Kondensatoren	**Capacitors**	
C 836, 837	C 6804035E0	Elko 35V 6800µF TS	Electrolytic 35V 6800µF TS	2
C 805, 806, 807	C 1004035E0	Elko 35V 1000µF TS	Electrolytic 35V 1000µF TS	3
C 819	C1004063E0	Elko 63V 1000µF TS	Electrolytic 63V 1000µF TS	1
C 820	C4705050E0	Elko 50V 470µF 18ϕ	Electrolytic 50V 470µF 18ϕ	1
C 826	C 1004025E0	Elko 25V 1000µF 16ϕ 33L	Electrolytic 25V 1000µF 16ϕ 33L	1
C 821	C 2205035E0	Elko 35V 220µF 12.5ϕ	Electrolytic 35V 220µF 12,5ϕ	1
C 823, 824	C 47060335E0	Elko 35V 47µF	Electrolytic 35V 47µF	2
C 827, 810, 811, 814, 815	C 4705035E0	Elko 35V 47µF 16ϕ	Electrolytic 35V 470µF 16ϕ	5
C 828	C 2205016E0	Elko 16V 220µF	Electrolytic 16V 220µF	1
C 829	C4706016E0	Elko 16V 47µF	Electrolytic 16V 47µF	1
C 838, 839	C 2205006E0	Elko 6.3V 220µF	Electrolytic 6.3V 220µF	2
C 812, 813	C1005006E0	Elko 6.3V 100µF	Electrolytic 6.3V 100µF	2
C 808, 809	C 1005035E0	Elko 35V 100µF	Electrolytic 35V 100µF	2
C 840	C 1005010E0	Elko 10V 100µF	Electrolytic 10V 100µF	1
C 818, 825, 832, 833, 834	C 220825000	Mylar 250V 0.22µF YM-93	Mylar 250V 0.22µF YM-93	5
C 801, 802, 803, 804	C 220820010	Mylar 200V 0.22µF K	Mylar 200V 0.22µF K	4
C 841, 842, 843, 816, 817, 822	C 4709050KA	Keramik 50V 0.047µF	Ceramic 50V 0.047µF	6
RY 801, 802	81-606	Relais MAT2B 24V	Relay MAT2B 24V	2
RY 803	81-607	Relais MAT4B 24V	Relay MAT4B 24V	1
CH 801	15-119	Drosselspule 392K 3.9mH	Choke Coil 392K 3.9mH	1
	74-349	Kühlkörper	Heat Sink	3
	74-348	Kühlkörper	Heat Sink	1
	71-1246	Stütze für Sicherungshalter	Bracket for Fuse holder	8
SI 701, 702, 703, 704	A 77805	Sicherung 3,15A F	Fuse 3,15A F	4
	87-123	Wrapstift 4P	Wrap Pin 4P	1
	87-131	Wrapstift 6P	Wrap Pin 6P	2
	87-133	Wrapstift 8P	Wrap Pin 8P	1
	87-136	Wrapstift 3P	Wrap Pin 3P	1
	87-117	Wrapstift	Wrap Pin	1
	87-118	Wrapstift	Wrap Pin	1
	87-120	Wrapstift	Wrap Pin	10
	87-137	Wrapstift	Wrap Pin	5
	84-317	Buchse 6P	Socket 6P	2
	04—0010	**FM-Stationsspeicher**	**Pre-setter Switching Unit**	
		Halbleiter	**Semiconductors**	
TR 301, 302, 303, 305, 309 TR 310, 311, 312, 313	Q 33408	Transistor 2SA828 S	Transistor 2SA828 S	9
TR 304, 306	Q 33409	Transistor 2SC828 T	Transistor 2SC828 T	2
TR 308	Q 33428	Transistor 2SC1382 Y	Transistor 2SC1382 Y	1
TR 307	F 33602	FET 2SK34	FET 2SK34	1
TH 301, 303, 304, 305, 306 TH 307, 302	G 33701	SCR SF0R2B41	SCR SFOR2B41	7
D 302, 305, 306, 308, 309, 310 D 311, 312, 307, 301	D 11201	Silikon-Diode 1S2473	Silicon Diode 1S2473	10
D 304	N 22302	Zener-Diode MZ207 7V 250mA	Zener diode MZ207 7V 250mA	1
D 303	N 22301	Zener-Diode MZ206 6V 250mA	Zener diode MZ206 6V 250mA	1
		Widerstände	**Resistors**	
R 316	R 2201011405	220Ω		1
R 322	R 100001405	10Ω		1
R 320	R 120301405	12KΩ		1
R 303, 332, 338, 345, 353 R 356, 310, 318, 324	R 100201405	1KΩ		9

Symbol	Teile-Nr. Part-No.	Bezeichnung		Description	Menge Quantity
R 323	R 150201405		1.5KΩ		1
R 305, 328, 334, 340, 346, 351	R 220201405		2.2KΩ		7
R 311					
R 317, 321	R 390201405		3.9KΩ		2
R 301, 331, 337, 343, 349	R 560201405		5.6KΩ		8
R 355, 308, 358					
R 307, 329, 335, 341, 347	R 100301405		10KΩ		9
R 352, 313, 315, 327					
R 314, 358	R 150301405		15KΩ		2
R 359	R 330301405		33KΩ		1
R 319	R 390301405		39KΩ		1
R 302, 330, 336, 342, 354	R 220401405		220KΩ		8
R 309, 304, 348					
VR 303, 304	R 100201405	Einstellregler 1KΩ-B		Semi-Fixed 1KΩ-B	2
VR 305	R 100301405	Einstellregler 10KΩ-B		Semi-Fixed 10KΩ-B	1
C 307	C 680905000	Mylar 50V 0.068μF M		Mylar 50V 0.068μF M	1
C 303, 325, 327, 329, 331	C 471005000	Mylar 50V 0.0047μF M		Mylar 50V 0.0047μF M	7
C 333, 304					
C 335, 334	C 4709050K0	Keramik 50V 0.047μF P		Ceramic 50V 0.047μF P	2
C 323	C 4706050E0	Elko 50V 47μF		Electrolytic 50V 47μF	1
C 301, 306, 308	C 1006035E0	Elko 35V 10μF		Electrolytic 35V 10μF	3
C 302, 324, 326, 328	C 1007050E0	Elko 50V 1μF		Electrolytic 50V 1μF	7
R 306, 333, 339, 344, 350	R 6801011M0	Metalloxidschicht 1W 680Ω K		Oxidized metal film 1W 680Ω K	7
R 357, 312					
L 301	15-125	Drosselspule 39mH		Choke Coil 39mH	1
L 302	15-119	Drosselspule 3.9mH		Choke Coil 3.9mH	1
	84-309	Stecker 10P		Plug 10P	2
	84-320	Stecker 16P		Plug 16P	1
	74-334	Kühlkörper		Heat sink	1
	02—6001	**DNL-Einheit**		**DNL Unit**	
DT 601, 602, 604, 654	Q 33423	Transistor 2SC1312G		Transistor 2SC1312 G	6
DT 652, 651 DT 603, 653	Q 33424	Transistor 2SC1312 H		Transistor 2SC1312 H	2
DD 601, 602, 603, 604 DD 605, 606, 652, 651, 655 DD 656, 653, 654	D 11201	Diode 1S2473		Diode 1S2473	12
		Widerstände		**Resistors**	
DR 604, 605, 617, 615 DR 665, 667, 654, 655	R 680101405		680Ω		8
DR 606, 612, 662, 656	R 100201405		1KΩ		4
DR 601, 651	R 150201405		1.5KΩ		2
DR 611, 661	R 180201405		1.8KΩ		2
DR 607, 657	R 390201405		3.9KΩ		2
DR 616, 666	R 560201405		5.6KΩ		2
DR 608, 658	R 820201405		8.2KΩ		2
DR 614, 619, 669, 664	R 220301405		22KΩ		4

Symbol	Teile-Nr. Part-No.	Bezeichnung		Description	Menge Quantity
DR 603, 623, 673, 653	R 560301405		56KΩ		4
DR 610, 622, 672, 660	R 100401405		100KΩ		4
DR 818, 620, 624, 674 DR 668, 670, 602, 652	R 120401405		120KΩ		8
DR 609, 613, 663, 659	R 330401405		330KΩ		4
DR 621, 671	R 470201405		4.7KΩ		2
DR 675	R 8201012D0	Solid 1/2W 82Ω K		Solid 1/2W 82Ω K	1
		Kondensatoren		**Capacitors**	
DC 605, 655	C 181005005	Mylar 50V 0.0018μF J		Mylar 50V 0.0018μF J	2
DC 603, 653	C 331005005	Mylar 50V 0.0033μF J		Mylar 50V 0.0033μF J	2
DC 603, 660	C 100905005	Mylar 50V 0.01μF J		Mylar 50V 0.01μF J	2
DC 602, 652	C 220905005	Mylar 50V 0.022μF J		Mylar 50V 0.022μF J	2
DC 607, 657	C 271005010	Mylar 50V 0.0027μF K		Mylar 50V 0.0027μF K	2
DC 606, 611, 656 DC 661, 612, 662	C 220905010	Mylar 50V 0.022μF K		Mylar 50V 0.022μF K	6
DC 604, 658	C 4711050L0	Styrol 50V 470pF J		Styrole 50V 470pF J	2
DC 608, 658	C 6811050L5	Styrol 50V 680pF J		Styrole 50V 680pF J	2
DC 601, 609, 659, 651 DC 660	C 4707025E0	Elko 25V 4.7μF		Electrolytic 25V 4.7μF	4
	C 1005025E0	Elko 25V 100μF		Electrolytic 25V 100μF	1
	61-331	Fach		Case	1
	63-1356	Schild		Name Plate	1
	01—6018	**FM-HF MPX Einheit**		**FM-RF MPX Unit**	
		Halbleiter		**Semiconductors**	
IC 202, 203	M 44502	IC TA7061AP		I.C. TA7061AP	2
IC 201, 204, 205, 206	M 44501	IC TA7060P		I.C. TA7060P	4
IC 207	M 44503	IC HA1156W		I.C. HA1156W	1
TR 201, 203, 204	Q 33420	Transistor 2SC839 F		Transistor 2SC839 F	3
TR 206, 207	Q 33408	Transistor 2SA828 S		Transistor 2SA828 S	2
TR 211, 214	Q 33406	Transistor 2SA721 T.U.		Transistor 2SA721 T.U.	2
TR 213, 216	Q 33426	Transistor 2SC1327 T.U.		Transistor 2SC1327 T.U.	2
TR 205, 208, 210, 212	Q 33419	Transistor 2SC828 T.S.		Transistor 2SC8287 T.S.	7
TR 215, 202, 209 D 214, 215, 216, 217, 218	D 11201	Diode 1S2473		Diode 1S2473	5
D 201 bis (thru) 213	D 11206	G. Diode 1S446 (D)		G. Diode 1S446 (D)	13
		Widerstände		**Resistors**	
R 213, 217, 294, 296	R 470001405		47Ω		4
R 202, 258, 247	R 100101405		100Ω		3
R 210	R 150101405		150Ω		1
R 201, 237, 221, 276, 290	R 220101405		220Ω		5
R 248, 272, 283	R 270101405		270Ω		3
R 224	R 270301405		27KΩ		1
R 207, 208, 214, 215, 216, 231, 236	R 330101405		330Ω		7
R 232	R 390101005		390Ω		1
R 212, 243, 252	R 560101405		560Ω		3
R 238, 267	R 820101405		820Ω		2

Symbol	Teile-Nr. Part-No.	Bezeichnung		Description	Menge Quantity
R 211, 225, 230, 233, 297 R 239, 245, 246, 257	R 100201405		1KΩ		9
R 204, 219, 220	R 120201405		1.2KΩ		3
R 218	R 150201405		1.5KΩ		1
R 250, 263, 264	R 220201405		2.2KΩ		3
R 270, 282	R 270201405		2.7KΩ		2
R 268	R 330201405		3.3KΩ		1
R 295, 271, 284, 262, 249	R 560201405		5.6KΩ		5
R 223, 222	R 680201405		6.8KΩ		2
R 206, 203, 235, 226, 228, 241, 242 R 251, 253, 260, 286, 287, 244	R 100301405		10KΩ		13
R 273, 285	R 110301405		11KΩ		2
R 256	R 150301405		15KΩ		1
R 240	R 180301405		18KΩ		1
R 205, 279, 292	R 220301405		22KΩ		3
R 234	R 390301405		39KΩ		1
R 255, 266, 269, 281	R 470301405		47KΩ		4
R 259	R 560301405		56KΩ		1
R 277	R 680301405		68KΩ		1
R 280, 293, 209	R 100401405		100KΩ		3
R 265	R 270401405		270KΩ		3
R 299, 275, 289	R 100501405		1MΩ		1
R 278, 291	R 150501405		1.5MΩ		2
R 227, 254, 274, 288	R 220501405		2.2MΩ		4
VR 201, 204, 205	R 100301405	Einstellregler 10K-B		Semi-Fixed 10K-B	3
VR 202, 203	R 220401405	Einstellregler 220K-B		Semi-Fixed 220K-B	2
		Kondensatoren		**Capacitors**	
C 203, 204, 211, 212, 277, 213 C 214, 215, 216, 217, 208, 223	C 2210050KA	Keramik 50V 0.0022µF M		Ceramic 50V 0.0022µF M	27
C 226, 207, 229, 232, 236, 238 C 240, 241, 242, 243, 234, 235, 225, 246, 210					
C 201, 205, 206, 224, 274 C 228, 230, 231, 256, 239 C 275, 244, 233	C 1010050K0	Keramik 50V 0.001µF M		Ceramic 50V 0.001µF M	13
C 209	C 3312050K0	Keramik 50V 33pF K		Ceramic 50V 33pF K	1
C 219, 220	C 4712050K0	Keramik 50V 47pF K		Ceramic 50V 47pF K	2
C 247	C 2212050K0	Keramik 50V 22pF K		Ceramic 50V 22pF K	1
C 272, 273, 263, 259	C 151005005	Mylar 50V 0.0015µF J		Mylar 50V 0.0015µF J	4
C 267	C 271005010	Mylar 50V 0.0027µF K		Mylar 50V 0.0027µF K	1
C 260, 268, 270, 262	C 820905010	Mylar 50V 0.082µF K		Mylar 50V 0.082µF K	4
C 257	C 470905010	Mylar 50V 0.047µF M		Mylar 50V 0.047µF M	1
C 207, 222	C 100805000	Mylar 50V 0.1µF M		Mylar 50V 0.1µF M	1
C 252, 250	C 220805005	Mylar 50V 0.22µF M		Mylar 50V 0.22µF M	2

Symbol	Teile-Nr. Part-No.	Bezeichnung	Description	Menge Quantity
C 251	C 470805000	Mylar 50V 0.47µF M	Mylar 50V 0.47µF M	1
C 255, 248	C 1007035N0	Tantal 35V 1µF	Tantalum 35V 1µF	2
C 261, 269	C 1006035N0	Tantal 35V 10µF	Tantalum 35V 10µF	2
C 264, 271	C 2207035E0	Elko 35V 2.2µF	Electrolytic 35V 2.2µF	2
C 265	C 4705035E0	Elko 35V 470µF	Electrolytic 35V 470µF	1
C 266, 258, 202, 218	C 4707035E0	Elko 35V 4.7µF	Electrolytic 35V 4.7µF	4
C 253, 245, 237	C 1007050E0	Elko 50V 1µF	Electrolytic 50V 1µF	3
C 276	C 2205016E0	Elko 16V 220µF	Electrolytic 16V 220µF	1
C 254	C 1006016E0	Elko 16V 10µF	Electrolytic 16V 10µF	1
C 221	C 4706006E0	Elko 6.3V 47µF	Electrolytic 6.3V 47µF	1
C 249	C 4711050L0	Styrol 50V 470pF K	Styrole 50V 470pF K	1
		Spulen	**Coils**	
IFT 202, 203	13-504	ZF-Filter	IFT	2
IFT 201	13-512	ZF-Filter	IFT	1
L 201	14-215	MPX Spule 19KHz 10Mc	MPX Coil 19KHz 10Mc	1
LPF 201	19-107	Tiefpaßfilter SNY 1704	Low Pass Filter SNY1704	1
CH 201	15-117	Drosselspule 4.7µH	Choke Coil 4.7µH	1
CH 202	15-127	Drosselspule 18µH	Choke Coil 18µH	1
CF 201, 202	L 10700	Keramikfilter 10.7MHz	Ceramic Filter 10.7MHz	2
	84-307	Stecker 6P	Plug 6P	3
	84-306	Stecker 4P	Plug 4P	1
	84-305	Stecker 3P	Plug 3P	1
	87-118	Wrapstift	Wrap Pin	9
	84-330	Stecker 3P	Connector 3P	1
		Tuner	**Tuner**	
	01-450	HF Paket (FM)	RF Pack (FM)	1
		Hauptschalter-Einheit AM ZF-Teil	**Switch Wiring (AM) AM IF Section**	
		Halbleiter	**Semiconductors**	
TR 101, 106	Q 33422	Transistor 2SC929 (E)	Transistor 2SC929 (E)	2
TR 102, 103	Q 33420	Transistor 2SC839 (F)	Transistor 2SC839 (F)	2
TR 104, 107	Q 33419	Transistor 2SC828 (S)	Transistor 2SC828 (S)	2
TR 105	F 33601	FET 2SK19	FET 2SK19	1
D 101, 102, 103	D 11206	Diode G. 1S446 (D)	G. Diode 1S446 (D)	5
		Spulen und Transformatoren	**Coils and Transformers**	
IFT 101, 102	13-324	ZF-Filter 455KHz	IFT 455KHz	2
IFT 103	13-325	ZF-Filter 455KHz	IFT 455KHz	1
IFT 104	13-326	ZF-Filter 455KHz	IFT 455KHz	1
L 106	12-535	OSZ. Spule LW 1mH	OSC. Coil LW 1mH	1
L 105	12-536	OSZ. Spule MW 182µH	OSC. Coil MW 182µH	1
L 104	12-537	OSZ. Spule SW 2.55µH	OSC. Coil SW 2.55µH	1
L 102	11-551	Antennenspule SW 1.8µH	Antenna Coil 1.8µH SW	1
L 101	15-117	Drosselspule 4.7 µH	Choke Coil 4.7µH	1
L 107	15-114	Drosselspule 150µH	Choke Coil 150µH	1
		Widerstände	**Resistors**	
R 103	R 220001405	22Ω		1
R 129, 139, 134, 126	R 330101405	330Ω		7
R 109, 133, 127				
R 110	R 390101405	390Ω		1
R 104, 107	R 470101405	470Ω		2
R 131, 137, 123, 111, 116	R 100201405	1KΩ		5
R 112	R 120201405	1.2KΩ		1
R 106	R 390201405	3.9KΩ		1
R 101, 122	R 560201405	5.6KΩ		2
R 135	R 680201405	6.8KΩ		1
R 132	R 820201405	8.2KΩ		1
R 130, 118	R 100301405	10KΩ		2

Symbol	Teile-Nr. Part-No.	Bezeichnung	Description	Menge Quantity
R 125	R 120301405	12KΩ		1
R 105, 113, 124	R 150301405	15KΩ		3
R 121	R 390301405	39KΩ		1
R 138, 114	R 470301405	47KΩ		2
R 136, 119	R 100401405	100KΩ		2
R 128	R 180401405	180KΩ		1
R 115	R 100501405	1MΩ		1
R 108, 117	R 150501405	1.5MΩ		2
		Kondensatoren	**Capacitors**	
C 105, 106, 101, 103	36-109	Keramik Trimmer 30pF	Ceramic Trimmer 30pF	4
C 104, 102	36-120	Keramik Trimmer 10pF	Ceramic Trimmer 10pF	2
C 114	C 2013050K0	Keramik 50V 2pF	Ceramic 50V 2pF	1
C 109	C 1012050K0	Keramik 50V 10pF K	Ceramic 50V 10pF K	1
C 108	C 1512050K0	Keramik 50V 15pF K	Ceramic 50V 15pF K	1
C 117	C 1011050K0	Keramik 50V 100pF K	Ceramic 50V 100pF K	1
C 129	C 4711050K0	Keramik 50V 470pF K M YP	Ceramic 50V 470pF K M YP	1
C 105, 125, 128	C 2210050K0	Keramik 50V 0.0022µF M YP	Ceramic 50V 0.0022µF M YP	3
C 118	C 4710050K0	Keramik 50V 0.0047µF M YY	Ceramic 50V 0.0047µF M YY	1
C 126	C 1009050K0	Keramik 50V 0.01µF M YY	Ceramic 50V 0.01µF M YY	1
C 102, 103, 106, 107, 110 C 111, 112, 113, 115, 116 C 122, 120, 124, 127	C 4709050KA	Keramik 50V 0.047µF M	Ceramic 50V 0.047µF M	14
C 130, 131	C 4710051E0	Elko 50V 0.047µF MS	Electrolytic 50V 0.047µF MS	2
C 119	C 2207035E0	Elko 35V 2.2µF	Electrolytic 35V 2.2µF	1
C 121, 104	C 1006016E0	Elko 16V 10µF	Electrolytic 16V 10µF	2
C 133	C 2711050L5	Styrol 50V 270pF J	Styrole 50V 270pF J	1
C 134	C 7512050L5	Styrol 50V 75pF J	Styrole 50V 75pF J	1
R 101	R 100301405	Einstellregler 10KΩ-B	Semi-Fixed 10KΩ-B	1
	81-297	Druckschalter 6-6-6-4	Push Switch 6-6-6-4	1
	87-117	Wrapstift	Wrap Pin	7
	87-137	Wrapstift	Wrap Pin	32
		Widerstände	**Resistors**	
R 120	R 220101405	Kohleschicht 1/4W 220Ω J	Carbon 1/4W 220Ω J	1
R 101	R 220401405	Kohleschicht 1/4W 220KΩ	Carbon 1/4W 220KΩ	1
		Kondensatoren	**Capacitors**	
C 132	C 2710050L5	Styrol 50V 2700pF J	Styrole 50V 2700pF J	1
C 101	C 5610050L5	Styrol 50V 5600pF J	Styrole 50V 5600pF J	1
C 123	C 4712050K0	Keramik 50V 47pF K	Ceramic 50V 47pF K	1
		Kopfhörerverstärker	**Headphone Amp.**	
		Halbleiter	**Semiconductors**	
IC 401, 451	M 44505 M 44506	IC TA7066 oder TA 7140P	I.C. TA7066 or TA 7140P	2
		Widerstände	**Resistors**	
VR 401	P 55605	POTI 50KΩ Ax2	Potention Meter 50KΩ Ax2	1
R 402, 452	R 330101405	Kohleschicht 330Ω J 1/4W	Carbon 330Ω J 1/4W	2
R 403, 453	R 470201405	Kohleschicht 4.7KΩ J 1/4W	Carbon 4.7KΩ J 1/4W	2
R 401, 451	R 560201405	Kohleschicht 5.6KΩ J 1/4W	Carbon 5.6KΩ J 1/4W	2
		Spulen	**Coils**	
CH 401	15-119	Drosselspule 392K 3.9mH	Choke Coil 392K 3.9mH	1
		Kondensatoren	**Capacitors**	
C 404, 454	C 3306016E0	Elko 16V 33µF	Electrolytic 16V 33µF	2
C 407, 457	C 4706016E0	Elko 16V 47µF	Electrolytic 16V 47µF	2
C 402, 452	C 4707025E0	Elko 25V 4.7µF	Electrolytic 25V 4.7µF	2
C 403, 453	C 1006025E0	Elko 25V 10µF	Electrolytic 25V 10µF	2

Symbol	Teile-Nr. Part-No.	Bezeichnung		Description	Menge Quantity
C 408	C 4706025E0	Elko 25V 47µF		Electrolytic 25V 47µF	1
C 401, 451	C 1010050K0	Keramik 50V 0.001µF M		Ceramic 50V 0.001µF M	2
C 405, 455	C 2210050K0	Keramik 50V 0.0022µF M		Ceramic 50V 0.0022µF M	2
C 406, 456	C 4710050K0	Keramik 50V 0.0047µF		Ceramic 50V 0.0047µF	2
		Regler-Teil		**Control Section**	
		Halbleiter		**Semiconductors**	
TR 601, 651, 602, 652	Q 33402	Transistor 2SA640 E		Transistor 2SA640 E	4
TR 605, 655	Q 33427	Transistor 2SC1328 T oder U		Transistor 2SC1328 T or U	2
TR 603, 604, 653, 654	Q 33412	Transistor 2SC1222		Transistor 2SC1222	4
		Widerstände		**Resistors**	
R 605, 655	R 220301405		22KΩ		2
R 620, 670	R 220101405		220Ω		2
R 618, 668	R 100201405		1KΩ		2
R 615, 665, 616, 666	R 120201405		1.2KΩ		4
R 611, 661	R 150201405		1.5KΩ		2
R 623, 673	R 470301405		47KΩ		2
R 613, 663, 622, 672	R 470201405		4.7KΩ		4
R 621, 671	R 820201405		8.2KΩ		2
R 104, 654, 608, 658, 614, 664	R 100301405		10KΩ		6
R 601, 651, 607, 657	R 150301405		15KΩ		4
R 610, 660	R 250301405		25KΩ		2
R 624, 674	R 680301405		68KΩ		2
R 603, 653	R 100401405		100KΩ		2
R 609, 659, 612, 662	R 150401405		150KΩ		4
R 602, 652, 606, 656	R 470401405		470KΩ		4
R 619, 669	R 100501405		1MΩ		2
R 617, 667	R 220501405		2.2MΩ		2
		Kondensatoren		**Capacitors**	
C 611, 661	C 101005005	Mylar 50V 0.001µF J		Mylar 50V 0.001µF J	2
C 610, 660	C 471005000	Mylar 50V 0.0047µF J		Mylar 50V 0.0047µF J	2
C 609, 659	C 120905005	Mylar 50V 0.012µF J		Mylar 50V 0.012µF J	2
C 608, 658	C 680905000	Mylar 50V 0.068µF J		Mylar 50V 0.068µF J	2
C 606, 656, 605, 655	C 3312050K0	Keramik 50V 33pF K		Ceramic 50V 33pF K	4
C 617, 667, 613, 663	C 1011050K0	Keramik 50V 100pF K		Ceramic 50V 100pF K	4
C 602, 652	C 4712050K0	Keramik 50V 47pF K		Ceramic 50V 47pF K	2
C 612, 622	C 1508050E0	Elko 50V 0.15µF MS		Electrolytic 50V 0.15µF MS	2
C 601, 651	C 3308050E0	Elko 50V 0.33µF MS		Electrolytic 50V 0.33µF MS	2
C 607, 657	C 1507050E0	Elko 50V 1.5µF MS		Electrolytic 50V 1.5µF MS	2
C 614, 664	C 2207035E0	Elko 50V 2.2µF MS		Electrolytic 50V 2.2µF MS	2
C 604, 654	C 1006026E0	Elko 6.3V 10µF		Electrolytic 6.3V 10µF	2
C 603, 653	C 2206016E0	Elko 16V 22µF		Electrolytic 16V 22µF	2
C 615, 665, 616, 666	C 4706025E0	Elko 25V 47µF		Electrolytic 25V 47µF	4
	87-120	Wrapstift 14L		Wrap Pin 14L	2
	87-118	Wrapstift 20L		Wrap Pin 20L	2
		Anpassungsverstärker		**Buffer Amp. Section**	
		Halbleiter		**Semiconductors**	
BTR 601, 651	Q 33405	Transistor 2SA721 T		Transistor 2SA721 T	2
		Widerstände		**Resistors**	
BR 604, 654	R 220101405		220Ω		2
BR 608, 658	R 470401405		470KΩ		2
BR 605, 655	R 680201405		6.8KΩ		2
BR 607, 657	R 470301405		47KΩ		2
BR 602, 652	R 100501405		1MΩ		2

Symbol	Teile-Nr. Part-No.	Bezeichnung		Description	Menge Quantity
BR 603, 653	R 150501405		1,5MΩ		2
BR 609, 659	R 100401405		100KΩ		2
BR 601, 651	R 220201405		2,2KΩ		2
BR 606, 656	R 560001405		56Ω		2
		Kondensatoren		**Capacitors**	
BC 603, 653	C 101105OK0	Keramik 50V 100pF K		Ceramic 50V 100pF K	2
BC 602, 652	C 4708025E0	Elko 25V 0.47µF		Electrolytic 25V 0.47µF	2
BC 604, 654	C 4707025E0	Elko 25V 4.7µF		Electrolytic 25V 4.7µF	2
BC 605	C 1005025E0	Elko 25V 100µF		Electrolytic 25V 100µF	1
		LED SP. Versorgung		**LED Power Supply Unit**	
		Widerstände		**Resistors**	
R 901	R 470A000C0	Zement MPC-70 0.47Ω K		Cement MPC-70 0.47Ω K	1
R 902	R 1000011M0	Metalloxidschicht 1W 10Ω		Oxidized metal film 1W 10Ω	1
R 903, 909, 910, 911, 912 R 914, 915, 916, 917, 918	R 1801012D0	Solid 1/2W 180Ω K		Solid 1/2W 180Ω K	10
R 905, 906, 907, 908	R 1501012D0	Solid 1/2W 150Ω K		Solid 1/2W 150Ω K	4
R 904, 913	R 2401012D0	Solid 1/2W 240Ω K		Solid 1/2W 240Ω K	2
		Halbleiter		**Semiconductors**	
D 901	D 11207	Diode P-300D 3A 200V		Diode P-300D 3A 200V	1
D 902	D 11205	Diode SM-1 200V 1A		Diode SM-1 200V 1A	1
		Kondensatoren		**Capacitors**	
C 901	C 220805005	Mylar 50V 0.22µF M		Mylar 50V 0.22µF M	1
C 902	C 2204010E0	Elko 10V 2200µF		Electrolytic 10V 2200µF	1
C 903	C 4705010E0	Elko 10V 470µF		Electrolytic 10V 470µF	1
	81-136	Drehschalter 4-5 L=25		Rotary Switch 4-5 L=25	1
	82-279	Eingangs-Stecker DIN 5P		Input Connector DIN 5P	1
	82-222	Kopfhörerbuchse		Headphone Jack	2
	81-2100	Druckschalter 2.2		Push Switch2.2	2
	81-299	Druckschalter 4.8		Push Switch 4.8	1
	81-298	Druckschalter 4.4.4		Push Switch 4.4.4	1
	87-278	Befestigungsbolzen L30		Fixing Stud L30	3
	87-129	Wrapstift 4P		Wrap Pin 4P	1
	87-124	Wrapstift 6P		Wrap Pin 6P	2
	87-125	Wrapstift 10P		Wrap Pin 10P	1
	87-136	Wrapstift 3P		Wrap Pin 3P	7
	04—3001	**Speicher-Einstelleinheit**		**Pre-Setter Unit**	
		Halbleiter		**Semiconductors**	
D 313, 314, 315, 316 D 317, 318, 319, 320	D 11210	Silikon-Diode 1SA473		Silicon-Diode 1SA473	8
		Widerstände		**Resistors**	
R 326	R 220401405	Kohleschicht R25 1/4W 220KΩ J		Carbon R25 1/4W 220KΩ J	1
R 325	R 330501405	Kohleschicht R25 1/4W 3.3MΩ J		Carbon R25 1/4W 3.3MΩ J	1
VR 306, 307, 309, 311	42-102	Poti mit langer Achse		Pre-setter Volume w/long shaft	4
VR 308, 310, 312	42-103	Poti mit kurzer Achse		Pre-setter Volume w/short shaft	3
		Kondensatoren		**Capacitors**	
C 324	C 470905010	Mylar 50V 0.047µF M		Mylar 50V 0.047µF M	1
	84-314	10P Stecker		10P Connector	1
	84-310	3P Stecker		3P Connector	1
	62-290	Rändelrad, schwarz		VR Knob, black	7
	72-1451	Leiterplatte		P. C. Board	1
	04—3002	**FM-Stationstasten**		**FM Touch Switch Unit**	
	81-295	Tastenplatine		Key Board Switch	1
	E 12401	Leuchtdiode, rot GL-31AR		LED Red GL-31AR	7
	61-322	Tastenrahmen		Switch Frame	1

Symbol	Teile-Nr. Part-No.	Bezeichnung	Description	Menge Quantity
	62-3150	Abdeckung, Senderzeichen	FM Station Name Cover	7
	84-322	Stecker 16P	Connector 16P	1
	01—3109—51	**Zubehör und Verpackung**	**Accessories and Packing**	
	94-143	Styropor	Styrofoam packing	pair 1
	40-251	Einzelkarton	Display carton	1
	40-252	Aufkleber	Serial Number label	1
	40-253	FM Antenne „T" Typ	FM Antenna „T" type	1
		Bedienungsanleitung	Instruction Manual	1
	KGE 95-739	Garantiekarte	Guarantee Card	
	01—3109—11	**Kippschalter-Einheit**	**Selector/Power Switch**	
	81-2105	Hebelschalter 5key	Lever Switch 5key	1
	87-123	Wrapstift 4P	Wrap Pin 4P	1
	87-124	Wrapstift 6P	Wrap Pin 6P	1
	87-137	Wrapstift 12L	Wrap Pin 12L	3
C 851	C 4709050MP	MP Kondensator 0.047μF	MP Capacitor 0.047μF	1
R 851, 852	R 560201405	Widerstand, Kohleschicht 1/4W 5.6KΩ J	Resistor, Carbon 1/4W 5.6KΩ J	2
D 851, 852	D 11205	Diode SM-1 200V 1A	Diode SM-1 200V 1A	2
	87-120	Wrapstift 14L	Wrap-Pin 14L	4
	87-117	Wrapstift 14L	Wrap Pin 14L	3
	01—3109—12	**AFC, FM Manual und Meter-Schalter**	**AFC, FM Manual and Meter Switch**	
D	81-2108	Druckschalter	Push Switch	1
	87-138	Wrapstift 7L	Wrap Pin 7L	11
	01—3109—13	**Baugruppe Leuchtdioden**	**LED Ass'y**	
GL-31AR	E 12401	Leuchtdiode GL-31AR 50mA Red	LED GL-31AR 50mA Red	21
SL-30PG	E 12402	Leuchtdiode SL-30PG 30mA Green	LED SL-30PG 30mA Green	2
R 953	R 6801011M0	Metalloxidschicht 1W 680Ω J	Resistor, Metal Oxide Film 1W 680Ω J	1
R 951, 952	R 1801012D0	Solid 1/2W 180Ω K	Solid 1/2W 180Ω K	2
	01—3109—14	**Quadro-Matrix Platine**	**Speaker Matrix Ass'y**	
R 1000	R 470A000C0	Widerstand, Zement 2W 47Ω K	Resistor, Cement 2W 47Ω K	1
R 1003, 1053	R 560A000C0	Widerstand, Zement 3W 5.6Ω K	Resistor, Cement 3W 5.6Ω K	2
R 1002, 1052	R 820A000C0	Widerstand, Zement 3W 8.2Ω K	Resistor, Cement 3W 8.2Ω K	2
R 1001	R 200A000C0	Widerstand, Zement 15W 2Ω K	Resistor, Cement 15W 2Ω K	1
	81-135	Drehschalter	Rotary Switch for Rear Level	1
	01—3109—15	**Baugruppe Sicherungshalter**	**Fuse Holder Ass'y**	
	87-118	Wrapstift 20L	Wrap Pin 20L	10
	71-1246	Metallstütze für Sicherungshalter	Metal Bracket for Fuse Holder	12
	01—3109—16	**Baugruppe Buchsenleiterplatte**	**P. C. Board Socket Ass'y**	
	84-318	Vielfachbuchse 22Px2	Multi-Socket 22Px2	1
	87-137	Wrapstift	Wrap Pin	7
	87-118	Wrapstift 20L	Wrap Pin 20L	1
	87-120	Wrapstift 14L	Wrap Pin 14L	2
	87-123	Wrapstift 4P	Wrap Pin 4P	1
	87-124	Wrapstift 6P	Wrap Pin 6P	1
	87-136	Wrapstift 3P	Wrap Pin 3P	3
	01—3109—17	**Baugruppe Skalenreflektor**	**Lamp Case Ass'y**	
	61-325	Beleuchtungsfach (weiß)	Lamp Case (white)	1
	72-1453	Leiterplatte für Skalenreflektor	P.C. Board for Dial Scale Lamp	1
	72-1460	Leiterplatte, Instrumentbeleuchtung	P.C. Board for Meter Lamp	1
	71-1333	Metallstütze für Skalenreflektorhalter	Metal Bracket for Lamp Holder	10
	83-301	Lampe 6.3V 170mA	Lamp 6.3V 170mA	5
	01—3109—18	**Baugruppe Frontchassis**	**Front Chassis Ass'y**	
	83-320	Lampe für Modulenbezeichnung 8V 50mA	Lamp for Module Ing. 8V 50mA	4
	92-236	Lampenhalter (Gummi)	Lamp Holder (white rubber)	4
	62-3161	Skalenrolle	Dial Pulley	4
	87-250	Welle	Pulley Shaft	4
	87-355	Befestigungsschraube 14L	Screw for Pulley fixing 14L	1
	87-383	Befestigungsschraube 10L	Screw for Pulley fixing 10L	1
	87-382	Befestigungsschraube 9L	Screw for P.C. Board fixing 9L	3

Symbol	Teile-Nr. Part-No.	Bezeichnung	Description	Menge Quantity
	01—3109—19	**Baugruppe Buchsenleiste**	**Back Chassis (Connector Chassis) Ass'y**	
	82-277	DIN 2P Lautsprecherbuchse	DIN 2P Speaker Connector	6
	82-278	DIN 5P Eingang-Buchse	DIN 5P Input Connector	2
	82-228	AM Antennenbuchse	AM Antenna Connector	1
	82-229	FM Antennenbuchse (300Ω)	FM Antenna Connector (300Ω)	1
	82-265	FM Antennenbuchse (75Ω)	FM Coaxial Connector (75Ω)	1
	82-276	DIN 5P Buchse mit Schalter	DIN 5P Connector w/switch	1
	11-410	FM Antennentrafo 300:75	FM Antenna Transformer 300:75	1
	15-118	Drosselspule 2.2µH (2R2K)	Choke Coil 2.2µH (2R2K)	1
	01—3109—21	**Hauptteile**	**Main Parts**	
	23-1156	Netztrafo mit Sicherungshalter	Power Transformer w/fuse holder	1
	31-230	Dreko mit VR	Variable Capacitor w/VR	1
	87-249	Abstimmwelle mit Schwungrad	Tuning Shaft w/Flywheel	1
	84-327	Stecker 3P	Connector 3P w/wire	1
	84-311	Stecker 4P	Connector 4P	1
	84-3121	Stecker 6P	Connector 6P	1
	84-3122	Stecker 6P	Connector 6P	1
	84-3123	Stecker 6P	Connector 6P	1
	84-3142	Stecker 10P	Connector 10P	1
	84-3161	Stecker 7P EQ Einheit MAG	Connector 7P EQ unit MAG	1
	84-3162	Stecker 7P EQ Einheit tape-1	Connector 7P EQ unit Tape-1	
SI 806	A 77804	Sicherung 1.6A (T) 5ϕ/x20L	Fuse 1.6A (T) 5ϕ/x20L	1
SI 801	A 77806	Sicherung 1.4A (T)	Fuse 1.4A (T)	1
SI 802, 803, 804, 805	A 77800	Sicherung 315mA (T)	Fuse 315mA (T)	4
	83-321	Lampe für Skalenzeiger 6.3V 100mA	Lamp for Dial Pointer 6.3V 100mA	1
	62-3161	Skalenrolle	Dial Pulley	1
	87-378	Befestigungsbolzen L30	Fixing Stud L30	9
	87-379	Befestigungsbolzen L31.5	Fixing Stud L31.5	1
	87-380	Befestigungsbolzen L62.5	Fixing Stud L62.5	2
	11-550	Ferritantenne MW+LW	Ferrite Antenna MW+LW	1
	62-3162	Seilrolle 45ϕ	Dial Drum 45ϕ	1
	83-122	Tuning Meter 650Ω 200µA	Tuning meter 650Ω 200µA	1
	83-123	Tuning Meter 650Ω ±100µA	Tuning meter 650Ω ±100µA	1
	87-250	Welle L4.2	Pulley shaft L4.2	1
	62-361	Netzkabelklemmschelle (HYCO 3P4)	AC Cord Cltmp (HYCO 3P4)	1
	85-230	Netzkabel mit Stecker	AC Cord w/plug	1
	71-1230	Drahtbinder	Wire Holder	10
	01—3109—41	**Baugruppe Gehäuse**	**Cabinet Ass'y**	
	61-229	Baugruppe Frontgehäuse	Front Panel Ass'y	1
	65-520	Skalenzeiger	Dial Pointer	1
	62-3146	Drucktaste	Push Button	3
	62-3147	Drucktaste	Push Button	13
	62-280	Reglerknopf	VR Control Knob	4
	62-3160	Kappe für DIN-Buchse	Cap for DIN Jack	1
	61-230	Oberes Gehäuse	Top Panel	1
	61-330	Abdeckung, Speichereinheit	Pre-setter Cover	1
	61-326	Seitenteil rechts	Side Panel R	1
	61-327	Seitenteil links	Side Panel L	1
	62-287	Senderwahlknopf	Tuning Knob	1
	62-288	Reglerknopf	Control Knob	2
	62-289	Reglerknopf	Control Knob	1
	62-283	Knopf, Hebelschalter	Lever switch Knob	5
	63-6069	Rückwandteil ALU	Rear Panel-ALU	1
	63-6068	Abdeckung, Buchsengraben	Connector Cover	1
	92-242	Gummifuß	Rubber leg	4
	63-4150	Skala	Dial Scale	1
	88-117	Skalenfeder	Dial Spring	1
	63-1352	FM Einstellskala	FM Pre-setter Scale	1
	63-1351	Schild, Muting	Muting Plate	1
	63-1349	Anschlußleiste	Connector Plate	1
	63-1354	Schild, Anschlüsse	Rating Plate	1

Symbol	Teile-Nr. Part-No.	Bezeichnung	Description	Menge Quantity
		Leiterplatten	**Board Ass'y**	
	02-10151	Entzerrervorverstärker	Equalizer Buffer Unit	
	02-3024	Endverstärker	Main Amp. Unit	
	02-20271	Regler-Einheit	Control Unit	
	04-0008	Netzteil-Einheit	Power Unit	
	04-0010	FM-Stationsspeicher	Preset Switching Unit	
	02-6001	DNL-Einheit	DNL Unit	
	01-6018	FM HF MPX-Einheit	FM RF MPX Unit	
	02-7001	Hauptschalter-Einheit	Switch Wiring Unit	
	04-3001	Speicher-Einstelleinheit	Pre-Setter Unit	
	04-3002	FM-Stationstasten	FM Touch Switch Unit	
	01-3109-11	Kippschalter-Einheit	Selector Power Switch	
	01-3109-12	AFC, FM Manual und Meter-Schalter	AFC 3-Gang Switch	
	01-3109-13	Baugruppe Leuchtdioden	LED Ass'y	
	01-3109-14	Baugruppe Quadro-Matrix	SP Matrix Ass'y	
	01-3109-15	Baugruppe Sicherungen	Fuse Ass'y	
	01-3109-16	Baugruppe Buchsenleiterplatte	P.C. Board Socket Ass'y	
	01-3109-17	Baugruppe Skalenreflektor	Lamp Case Ass'y	
	01-3109-18	Baugruppe Frontchassis	Front Chassis Ass'y	
	01-3109-19	Baugruppe Buchsenleiste	Back Chassis Ass'y	
	01-3109-21	Hauptteile	Main Parts	
	01-3109-41	Baugruppe Gehäuse	Cabinet Ass'y	

„E"	**Entzerrer-Teil / Equalizer part**
„B"	**Vorverstärker-Teil / Buffer part**
„J"	**± 5%**
„K"	**± 10%**